JVC

SERVICE MANUAL

PORTABLE COMPONENT SYSTEM

PC-V77 A/B/E/G/U/V

An instruction booklet (B/E/G version) is provided with this manual.

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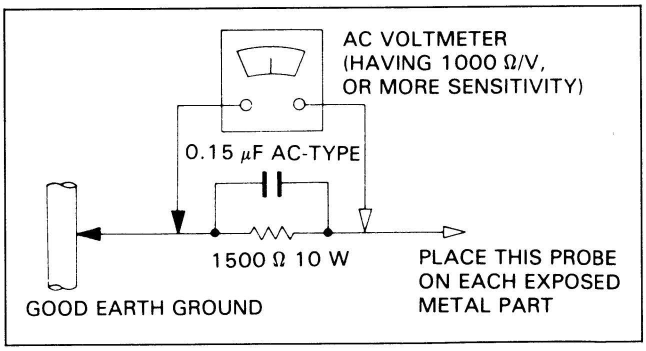
No. 1740-1
October 1987

1 Safety Precautions

1. The design of this product contains special hardware. Many circuits and components specially for safety purposes.
   For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by (⚠) on the schematics and parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature part, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
   When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.
5. Leakage current check
   (Safety for electrical shock hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method.
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.)
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).
     This corresponds to 0.5 mA AC (r.m.s.).



2 Location of Main Parts

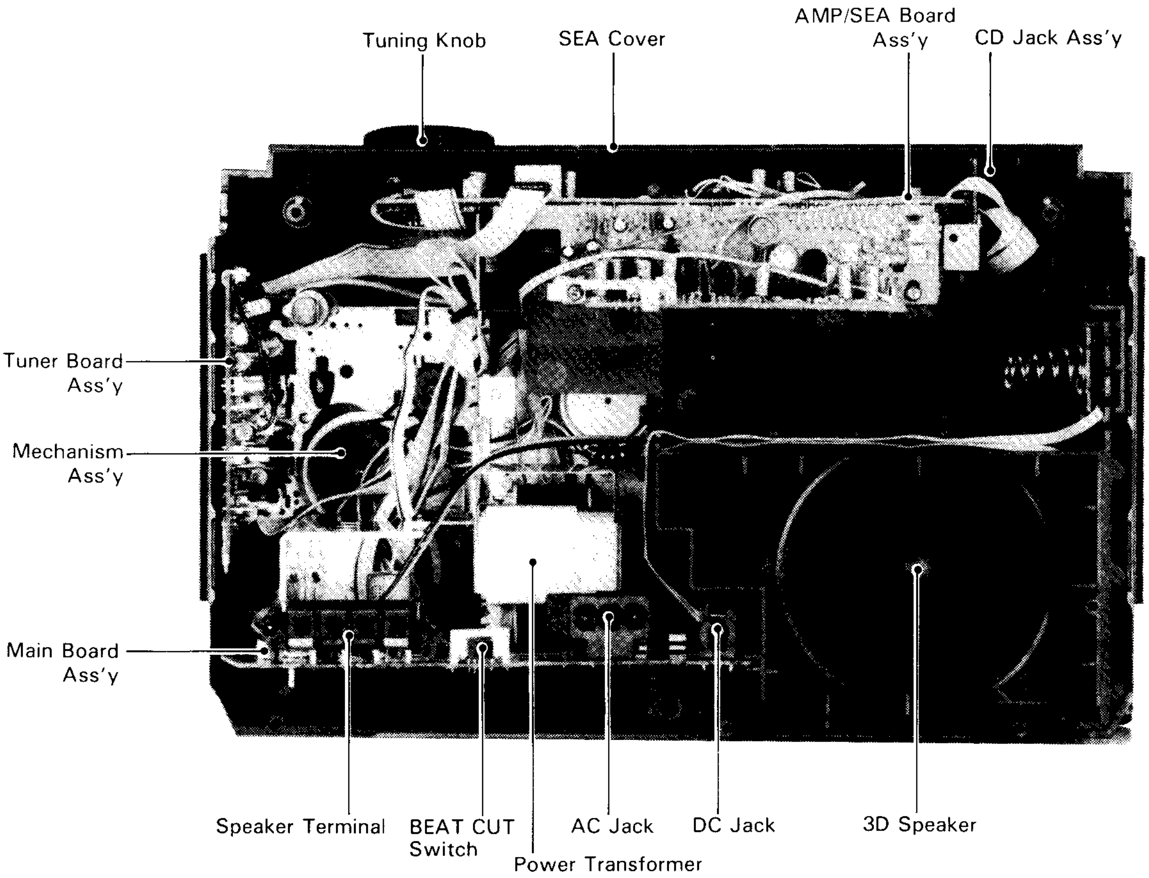

Tuning Knob
SEA Cover
AMP/SEA Board Ass'y
CD Jack Ass'y
Tuner Board Ass'y
Mechanism Ass'y
Main Board Ass'y
Speaker Terminal
BEAT CUT Switch
Power Transformer
AC Jack
DC Jack
3D Speaker

Fig. 2-1

3 Removal of Main Parts

Cabinet Section

* Replacing the fuse

Remove the rear cabinet the replace fuse

* Replacing the telescopic antenna.

Remove the screw Ⓐ at rear of the cabinet to replace the T. antenna.

■ Rear cover

1) Remove the battery cover.
2) Remove eight screws ①, ② and ③ retaining the rear cabinet.
3) Disconnect the connector (CND1) on Din Jack Board. (G/V version)

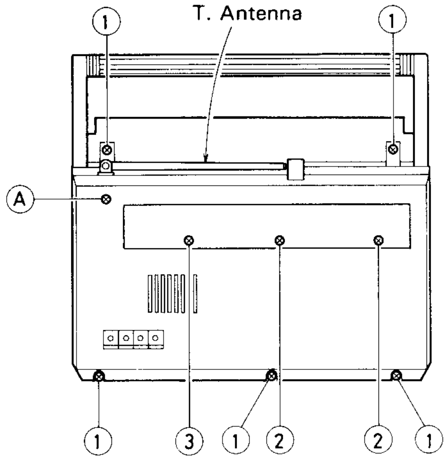


Fig. 3-1

■ Amp. Board/SEA Board/3D speaker ass'y

1) Remove the two screws ④ securing the CD in-jack ass'y.
2) Remove the volume knob.
3) Remove the Function/Tape switch knob.
4) Pull and remove the SEA volume cover.
5) Remove the five screws ⑤ and ⑥ securing the board ass'y and 3D speaker ass'y.
6) Pull the entire ass'y slightly, then remove the head wire, motor tuner, etc.

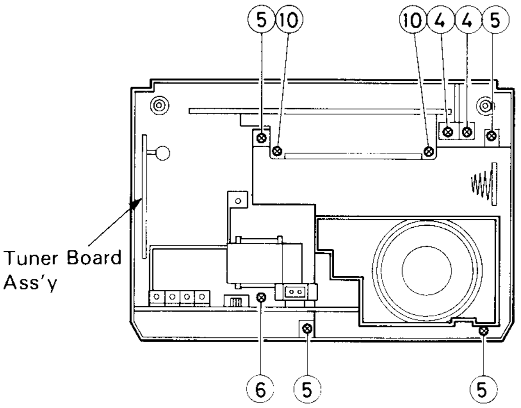


Fig. 3-2

■ Tuner board ass'y

1) Remove the wire connector for the tuner board.
2) Pull out the board ass'y.

■ Mechanism ass'y

1) Remove the six screws ⑦.
2) Open the cassette door to remove.
   * For reassembly, lift the cabinet rear slightly for easier assembly of the button and button lever.

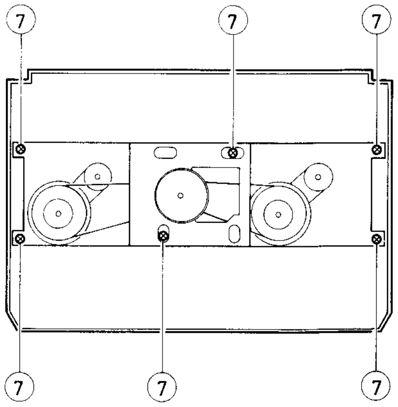


Fig. 3-3

■ LCD indicator ass'y

1) Remove the two screws ⑧ securing the lamp ass'y.
2) Remove the two screws ⑨ securing the LCD board.

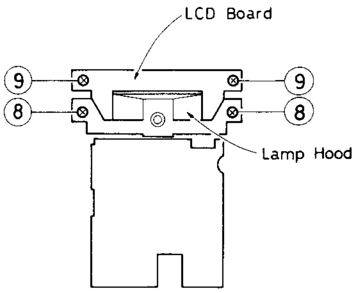


Fig. 3-4

■ **Cassette door**
1) Pull the lid up to remove.
2) Remove the door spring.
3) Close the door and remove the center shaft. Then remove the outer shaft and pull out toward the front panel.

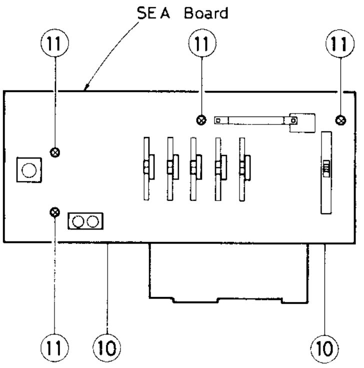


Fig. 3-5

■ **SEA board ass'y**
1) Remove the two screws ⑩ securing the pre-amp board.
2) Remove the four screws ⑪ securing the SEA board. (For reassembly, insert the rec spring into the switch's slider hole.)
   * The parts on the power amp board can still be replaced.

Mechanism Section

(Top View) **(Bottom View)**

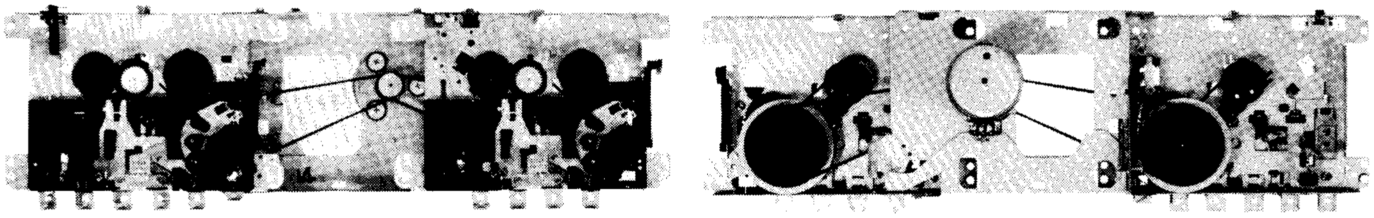


Fig. 3-6

■ **Motor bracket (Recording/playback deck)**
1) Remove the three screws ①.
2) Remove the chassis and M. bracket from the button side. Then remove the bracket arm (panel). (The synchro arm can be removed from the pause lock. Return the pause lock after it is removed from the proper position.)

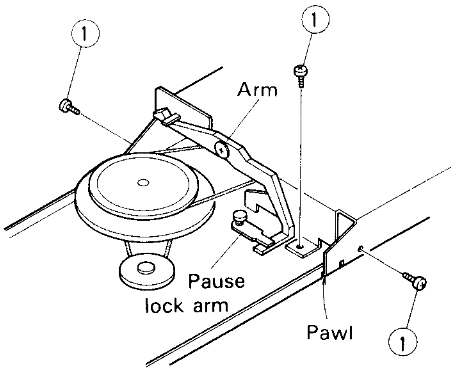


Fig. 3-7

■ **Head section**
1) Remove the record/playback head's mounting screw Ⓐ and loosen screw Ⓑ.
2) Remove the erase head mounting screw Ⓒ and Ⓓ.

■ **Pinch roller**
1) Remove the pinch roller arm stopper E.

■ **Flywheel ass'y**
1) Remove the C washer Ⓕ securing the capstan shaft.
2) Pull out the flywheel ass'y.

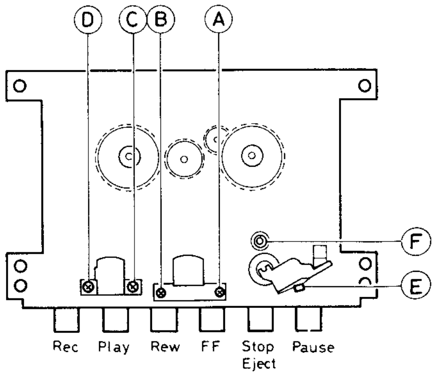


Fig. 3-8

■ Removal of the button ass'y from the mechanical chassis.

- Leaf switch
  Press the switch's lock panel and raise from the left to remove.

- Gear (Below the flywheel)
  Remove the C washer Ⓖ securing the gear.
  For reassembly, insert the Sensing Lever arm stand into the Ⓩ section.

- Lock arm
  Press the arm stopper from window Ⓗ, and pull to remove.

- Chassis removal
  1) Remove the three Ⓙ, Ⓚ, and Ⓛ springs.
  2) Remove the two screws ②.
  3) Remove the two screws ③ securing the capstan metal.
  4) Gently remove the button ass'y from the chassis.

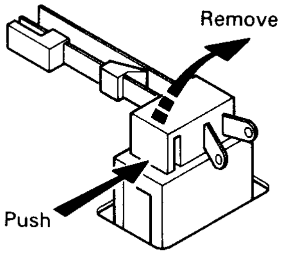

Remove
Push

Fig. 3-9

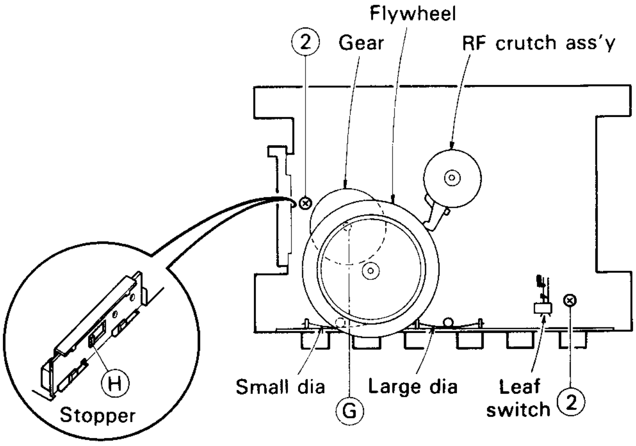

Flywheel
②
Gear
RF crutch ass'y
Ⓗ
Stopper
Small dia
Ⓖ
Large dia
Leaf switch
②

Fig. 3-10

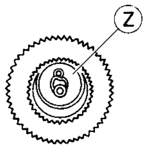


Fig. 3-11

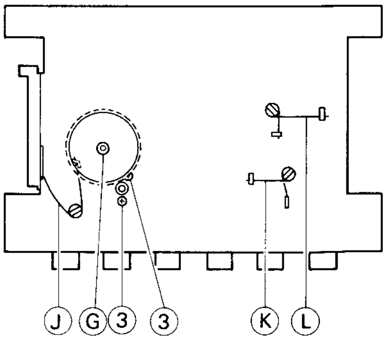


Fig. 3-12

4 Main Adjustment

■ Amplifier adjustments

Conditions

Power supply voltages : DC 12 V, Timer 1.5 V (from battery)
Input levels : AUX 8 dBm, MIC 48 dBm
Output levels : Speaker 0 dBm/6 Ω
Headphones 0 dBm/32 Ω

SEA controls : Center
Tape select : Normal
Tapes used : Recording normal tape TS-8 (UR)
chrome tape TS-6
metal tape TS-7

Item	Tape used	Adjustment/check method	Switch setting	Adjustment location
Head azimuth adjustment	VTT703 (10 kHz)	Maximize outputs of decks A and B; adjust to minimize phase difference between left and right channels. To adjust deck A, adjust FWD first, then REV. After adjustment, apply screw locking compound. { Fine adjustment after assembly should be done with the head cover removed. }	Tape/normal speed	Deck A: Adjust FWD then REV Deck B
Tape speed adjustment	VTT712 (3 kHz)	After normal speed adjustment, perform double speed adjustment 1. Adjust the normal speed of deck A to 3000 with VR851. 2. Check if Deck B is at 3000 Hz +10 Hz. 3. To confirm high speed mode, play back Deck B, then set Deck A to record mode.	Tape/Normal speed High speed	VR851
Checking wow & flutter	VTT712 (3 kHz)	Deck B : 0.35% Deck A : 0.40% (JIS RMS) or less	Tape/Normal speed	
Playback output level	VTT724 (1 kHz)	Adjust VR101, VR102 (deck A) and VR201, VR202 (deck B) so that the output of TP151, TP251 and TP751 are −21 dBm	Tape/Normal speed	Deck A L ch : VR101 R ch : VR201 Deck B L ch : VR102 R ch : VR202
Confirming playback frequency response	VTT739	With respect to their outputs at 1 kHz, the outputs at TP151 and TP251 should be −5 ± 3 dB at 63 Hz, and −1 ± 3 dB at 10 kHz.	Tape/Normal speed	
Recording bias frequency	(TS-8) Normal tape	Set beat cut switch S721 to position 1 and adjust the oscillating frequency of C724 to 68 ± 1 kHz with L721. (Connect a 100 Ω resistor in series when measuring.)	S721 (Beat cut) 2 : 66 kHz 3 : 68 kHz	L721
Rec/Play frequency response	(TS-8) Normal tape	Deck A: Adjust VR122 (L ch) and VR222 (R ch) so that the rec/play output of an input signal −20 dB with respect to the reference level at 1 kHz is −0 dB ± 1 dB at 10 kHz. Deck B : Same as deck A. Measure outputs from TP151 and TP251.		L ch : VR122 R ch : VR222
Rec/play output adjustment	(TS-8) Normal tape	Adjust VR121 (L ch) and VR221 (R ch) so that the level when recording and playing back an AUX (CD) IN signal −20 dB with respect to the reference level is −0 dBm ± 1 dB.		L ch : VR121 R ch : VR221

Location of Adjustment

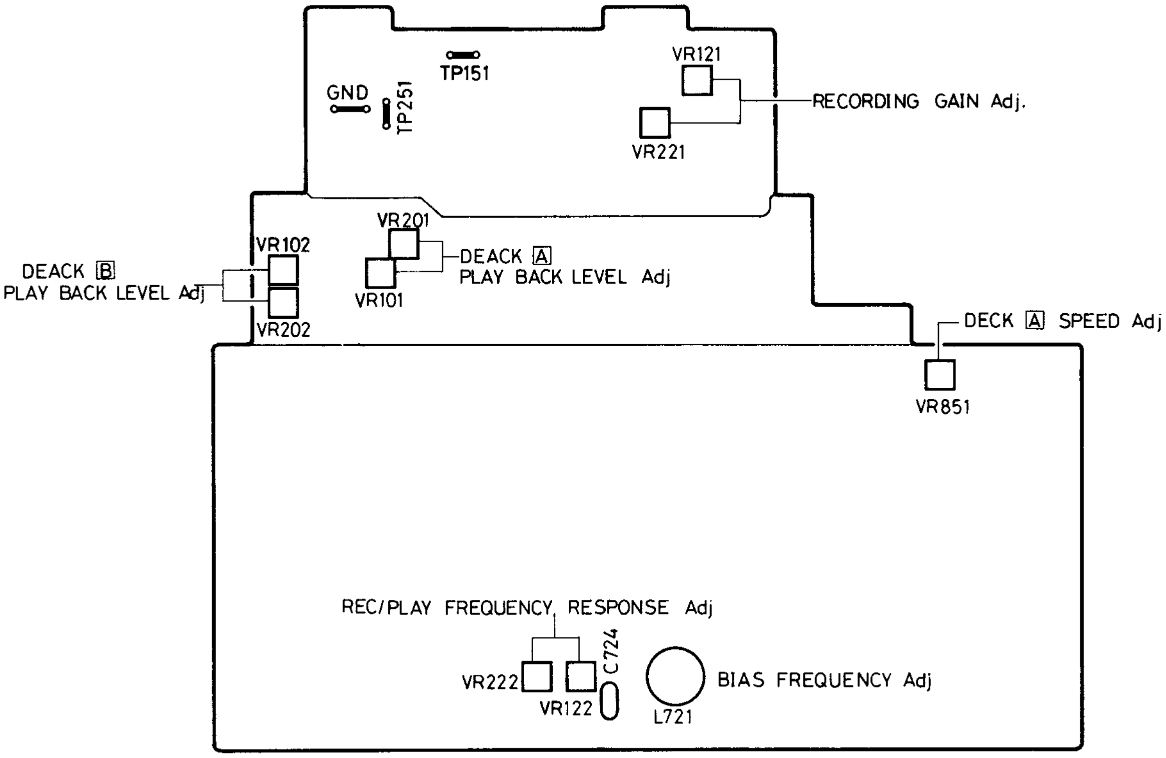
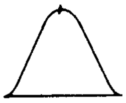

TP151
VR121
GND
TP251
RECORDING GAIN Adj.
VR221
VR201
VR102
DEACK 🅱
PLAY BACK LEVEL Adj
DEACK 🅰
PLAY BACK LEVEL Adj
VR101
VR202
DECK 🅰 SPEED Adj
VR851
REC/PLAY FREQUENCY RESPONSE Adj
C724
VR222
VR122
BIAS FREQUENCY Adj
L721

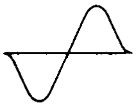
Fig. 4-1

■ Tuner Alignment

BASIC CONDITIONS

POWER SOURCE OF THE RECEIVER	DC 12 V, AC 120 V
LOAD RESISTANCE OF THE RECEIVER	50 mW (0.55 V)/6 Ω
MODULATION OF SSG	400 Hz. 30%

Item	Description
1. AM IF ALIGNMENT	
1-1 Conditions of the receiver.	
(1) Power source:	DC 7 V (When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.)
(2) Function switch position:	RADIO
(3) Band select switch:	AM
(4) Volume control:	Minimum gain position
(5) SEA control:	Center position
(6) Variable capacitor:	Near the minimum capacity position where no signal come in.
1-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP3
(2) Tuner output:	Positive side to TP6] Negative side to TP7]
1-3 Aligning position:	CFT, T2
1-4 Alignment (Waveform): 	Adjust AM I.F.T. (above mentioned aligning position) so that maximum and symmetrical wave form can be obtained. In this case, the wavehead should be appeared at the center marker (450 kHz) on the scope of Sweeper.

Item	Description
2. FM IF ALIGNMENT	
2-1 Conditions of the receiver	
(1) Power source:	Same as mentioned in item 1-1
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	Minimum gain position
(5) SEA control:	Center position
(6) Variable capacitor:	Near the minimum capacity position where no signal come in.
2-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP5
(2) Tuner output:	Positive side to TP6 Negative side to TP7
NOTE a) Attach a capacitor (30 pF) and resistor (30 kΩ) to the positive side cable which shall be led from Sweeper input. b) Attach a resistor (100 kΩ) in series to the positive side cable which shall be led from Sweeper output.	
2-3 Aligning position:	Discriminate Waveform: T1 ("S" curve waveform)
2-4 Alignment (Waveform):	Adjust the discriminate coil (T1) so that "S" curve waveform may be changed to IF waveform as shown in following figure. 
NOTE The discriminator's CF is yellow. Do not use one that is of another color.	Adjust the discriminate T2 so that above symmetrical IF waveform may be changed to balanced "S" curve waveform.
3. AM RF ALIGNMENT	
3-1 Conditions of the receiver.	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	RADIO
(3) Volume control:	50 mW
(4) SEA control:	Center position
(5) Variable capacitor:	Refer the following list shown in item 3-4.
3-2 Conditions of SSG.	
(1) Modulation:	Refer the basic condition
(2) Frequency:	Refer the following list shown in item 3-4.
(3) Output level of the attenuator in SSG:	Approx. 50 mW
3-3 Power output measuring position:	Speaker terminals
3-4 Alignment:	

	Band Select Switch Position	**Sort of Antenna to be attached to SSG**	**Frequency of SSG**	**Preset Memory No.**	**Aligning Position**
1	AM or MW		520 kHz	M5	L5
2			Turn L5 until the voltage of TP9 becomes 4.4±0.05 V.		
3					
4			600 kHz	to be received 600 kHz (M2)	L3
5	(Adjustments after AM(MW) oscillation circuit replacement initial setting. (See page 10))		1,400 kHz	to be received 1,400 kHz (M4)	TC3
6			Adjust the above aligning position (L3 & TC3) repeatedly so that the tuner can be obtained the best sensitivity.		
7	LW (B/E/G/V Version)	Loop Antenna	281 MHz	M5	L6
8			Turn L6 until the voltage of TP9 becomes 4.4±0.02 V.		
9					
10			164 kHz	to be received 164 kHz (M1)	L4
11			272 kHz	to be received 272 kHz (M5)	TC-4
12			Adjust the above aligning position (L4 & TC-4) repeatedly so that the tuner can be obtained the best sensitivity.		

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Preset Memory No.	Aligning Position
13	SW (A/U Version)	Dummy Antenna	17.9 MHz	M5	L6
14			Turn L6 until the voltage of TP9 becomes 4.4±0.02 V.		
15					
16			6 MHz	to be received 6 MHz	L4
17			17 MHz	to be received 17 MHz	TC-4
18			Adjust the above aligning position (L4 & TP-4) repeatedly so that the tuner can be obtained the best sensitivity.		

Item	Description
4. FM RF ALIGNMENT	
4-1 Conditions of the receiver.	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	50 mW
(5) SEA control:	Center position
(6) Variable capacitor:	Refer the following list shown in item 4-3.
4-2 Condition of FM SSG.	
(1) Modulation:	Refer the basic condition
(2) Frequency:	Refer the following list shown in item 4-3.
(3) Output level of the attenuator in FM SSG:	The level shall be decided by the load resistance of the receiver mentioned in the basic conditions.
4-3 Connection of sweeper and the receiver.	
(1) Tuner input	Positive side to TP1. Negative side to TP2.
(2) Tuner output	Positive side to
4-4 Alignment:	

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Preset Memory No.	Aligning Position
1	FM	Dummy Antenna	108 MHz	M5	L1
2			Adjust L1 until the voltage of TP9 becomes 4.4±0.05 V.		
3					
4			88 MHz	to be received 90 MHz (M2)	L2
5			108 MHz	to be received 108 MHz (M4)	TC-2
6			Adjust the above aligning position (L2 & TC-2) repeatedly so that the tuner can be obtained the best sensitivity.		

Adjustments after AM oscillation circuit replacement

Initial setting

- Set L5 to VQM7U02-402. (Seal is 402.)
- Position TC5 (trimmer) in the center.

1) Do tracking adjustment of L3 and TC3.
2) Measure the maximum sensitivity for every 100 kHz from 600 kHz (or 603 kHz) to 1000 kHz (or 999 kHz). Then do the following:
   a) If better than the threshold value (52 dB/m) of the maximum sensitivity at each frequency, it is okay.
   b) If it becomes worse than the threshold value at around 700 kHz to 800 kHz, set TC5 to MAX and readjust the RF tracking.
   c) If it becomes worse than the threshold value at around 900 kHz to 1000 kHz, set TC5 to MIN and readjust the RF tracking.

Reference OSC circuit parts

D6 KV 1250
C25 QFS 41HJ-391
TC5 QAT 3720-600M
L5 VQM7002-401
IC2 LA1810
C26 QCT30CH-5R6Y
Q3 2SC2839(E) (Except for C/J version.)

■ FM Stereo Separation Adjustment

1. Receive a modulated stereo signal of 60 dBμ FM 98 MHz.
2. Modulate L ch only, then adjust VR1 until the R ch output is at the minimum.
3. Check if the separation is 35 dB or above (after passing through the DOLBY filter).

Parts Arrangement for Alignment

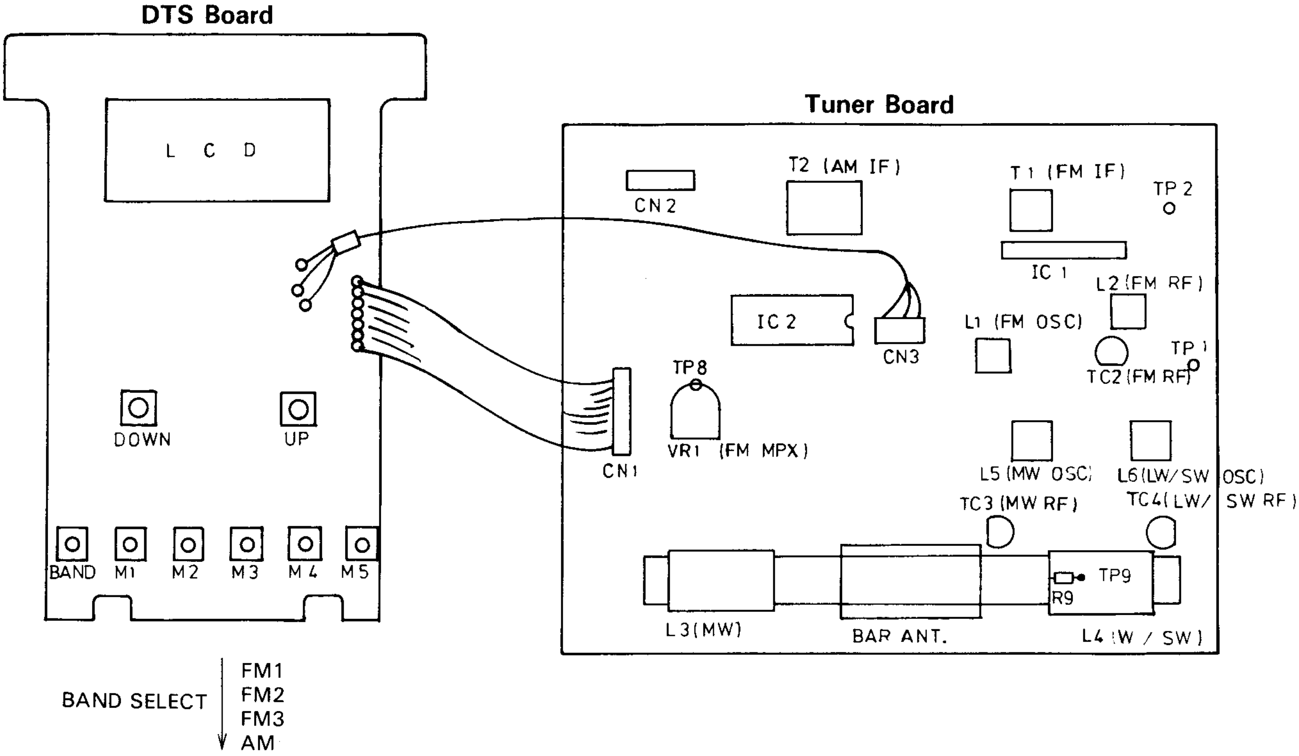

DTS Board
L C D
DOWN
UP
BAND
M1
M2
M3
M4
M5
BAND SELECT
FM1
FM2
FM3
AM
Tuner Board
CN2
T2 (AM IF)
T1 (FM IF)
TP2
IC1
L2 (FM RF)
IC2
CN3
L1 (FM OSC)
TP1
TC2 (FM RF)
TP8
VR1 (FM MPX)
CN1
L5 (MW OSC)
L6 (LW/SW OSC)
TC3 (MW RF)
TC4 (LW/SW RF)
TP9
R9
L3 (MW)
BAR ANT.
L4 (LW/SW)

Fig. 4-2

(Pattern side)

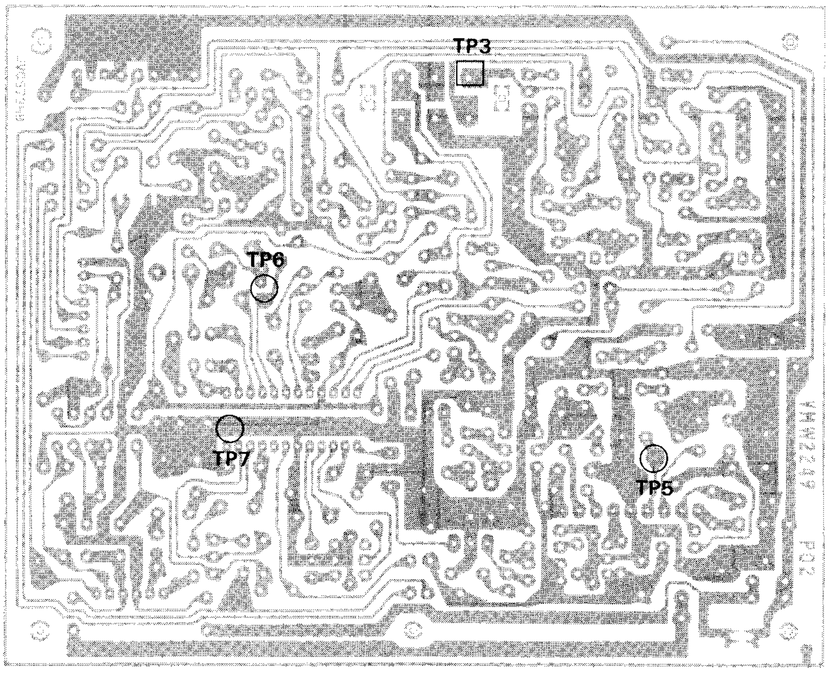

TP3
TP6
TP7
TP5

Fig. 4-3

5 Block Diagram

Tuner

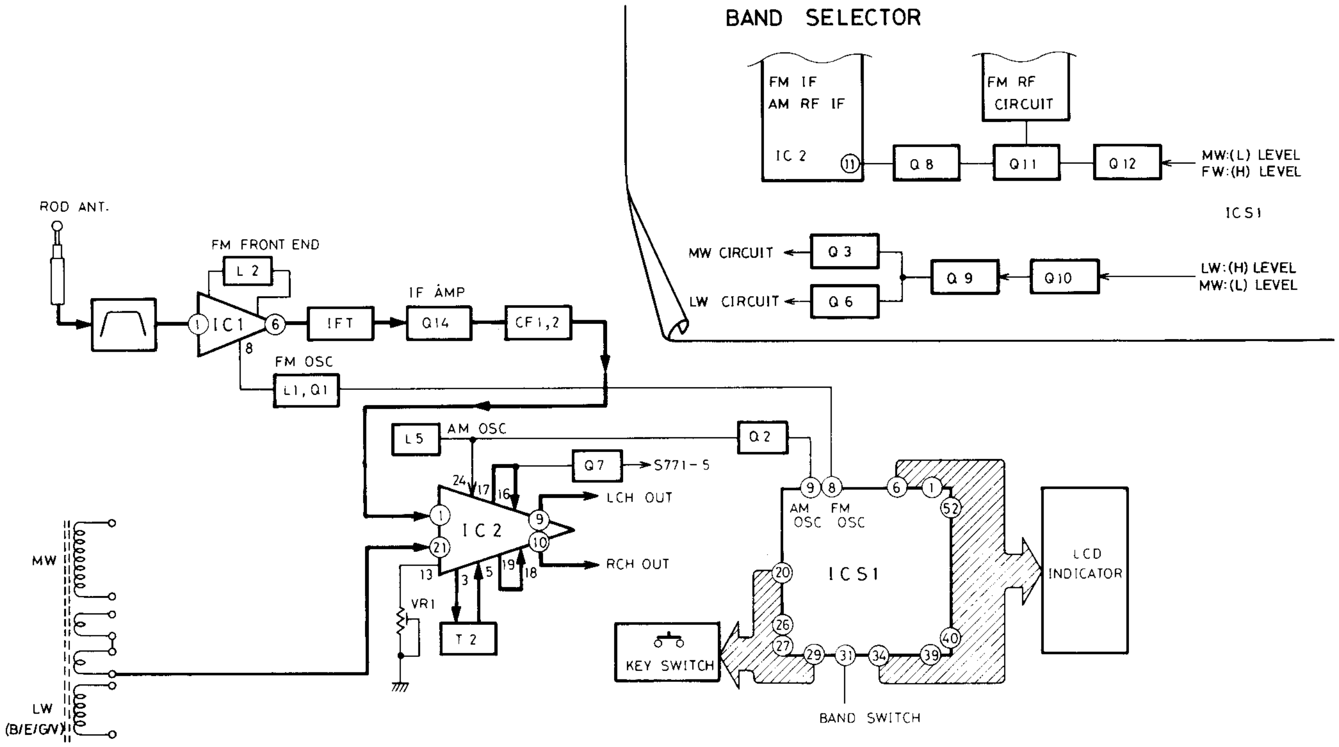

BAND SELECTOR
FM IF
AM RF IF
IC 2
⑪
Q 8
FM RF
CIRCUIT
Q 11
Q 12
MW:(L) LEVEL
FW:(H) LEVEL
IC S1
MW CIRCUIT
Q 3
Q 9
Q 10
LW:(H) LEVEL
MW:(L) LEVEL
LW CIRCUIT
Q 6
ROD ANT.
FM FRONT END
L 2
① IC 1 ⑥
8
IFT
IF AMP
Q 14
CF 1,2
FM OSC
L 1, Q 1
L 5
AM OSC
Q 2
Q 7
S771-5
24
17
16
① IC 2
㉑
⑨
⑩
LCH OUT
RCH OUT
13
3
5
19
18
VR1
T 2
MW
LW
(B/E/G/V)
⑨ ⑧
AM OSC
FM OSC
⑥ ①
52
⑳
ICS1
㉖
㉗
㉙ ㉛ ㉞ ㊴
40
KEY SWITCH
BAND SWITCH
LCD INDICATOR

Fig. 5-1

Amplifier

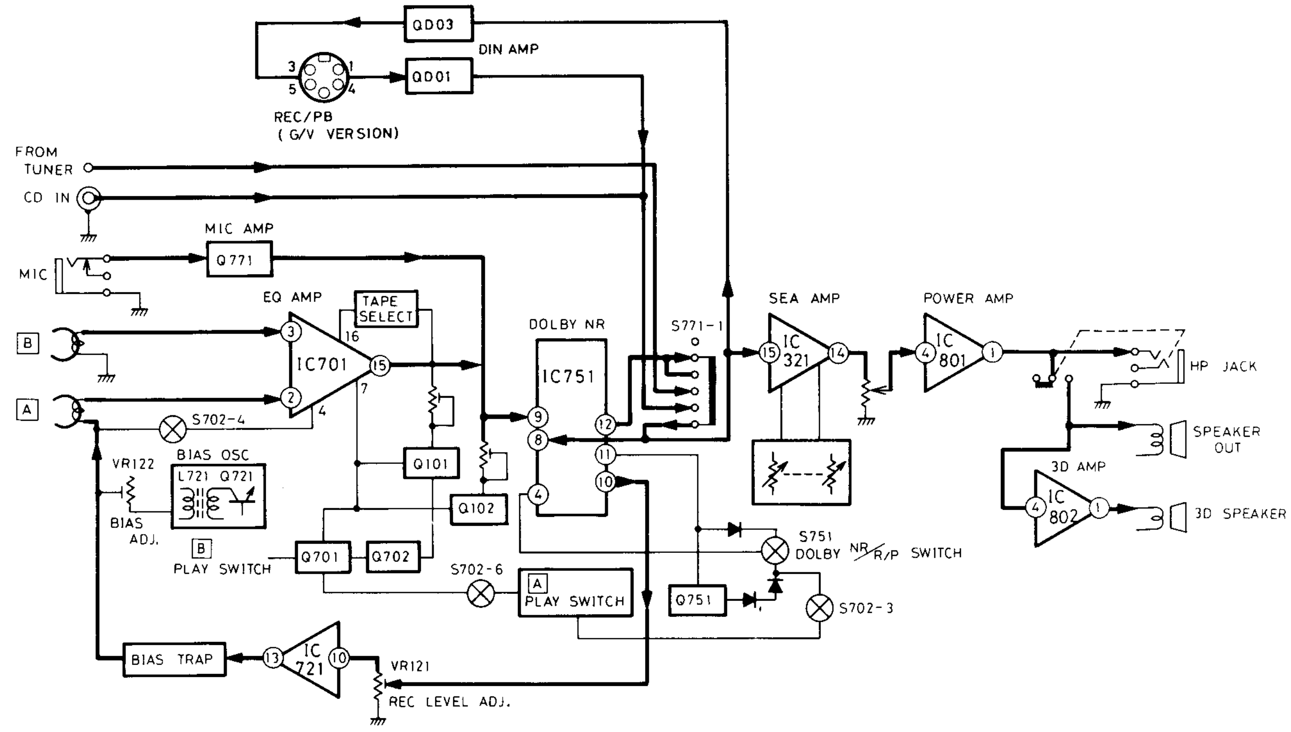

QD03
DIN AMP
QD01
3
1
5
4
REC/PB
(G/V VERSION)
FROM TUNER
CD IN
MIC AMP
MIC
Q771
EQ AMP
TAPE SELECT
B
A
③
②
16
IC701
⑮
7
4
S702-4
VR122
BIAS OSC
L721 Q721
BIAS ADJ.
B PLAY SWITCH
Q101
Q102
Q701
Q702
S702-6
A PLAY SWITCH
DOLBY NR
IC751
⑨
⑧
④
⑫
⑪
⑩
S771-1
SEA AMP
⑮ IC 321 ⑭
POWER AMP
④ IC 801 ①
HP JACK
SPEAKER OUT
3D AMP
④ IC 802 ①
3D SPEAKER
S751
DOLBY NR/R/P SWITCH
Q751
S702-3
BIAS TRAP
⑬ IC 721 ⑩
VR121
REC LEVEL ADJ.

Fig. 5-2

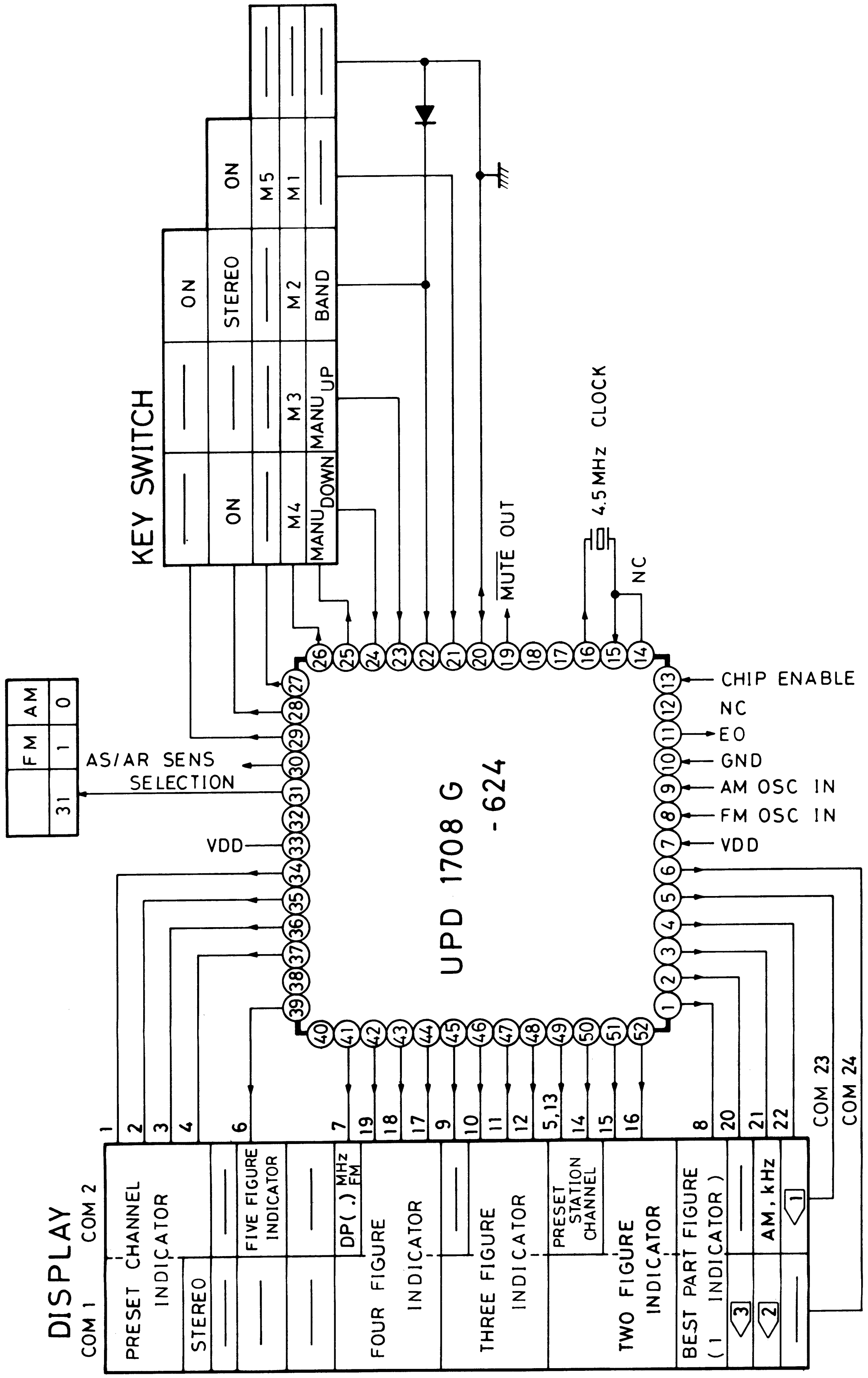

KEY SWITCH
ON
STEREO
M2
BAND
ON
M5
M1
M3
MANU UP
M4
MANU DOWN
MUTE OUT
4.5MHz CLOCK
NC
CHIP ENABLE
NC
EO
GND
AM OSC IN
FM OSC IN
VDD
FM
AM
1
0
31
AS/AR SENS SELECTION
VDD
UPD 1708 G -624
DISPLAY
COM 1
COM 2
PRESET CHANNEL INDICATOR
STEREO
FIVE FIGURE INDICATOR
DP(.) MHz FM
FOUR FIGURE INDICATOR
THREE FIGURE INDICATOR
PRESET STATION CHANNEL
TWO FIGURE INDICATOR
BEST PART FIGURE (1 INDICATOR)
AM, kHz
COM 23
COM 24

Fig. 5-3

• **BA3812L**

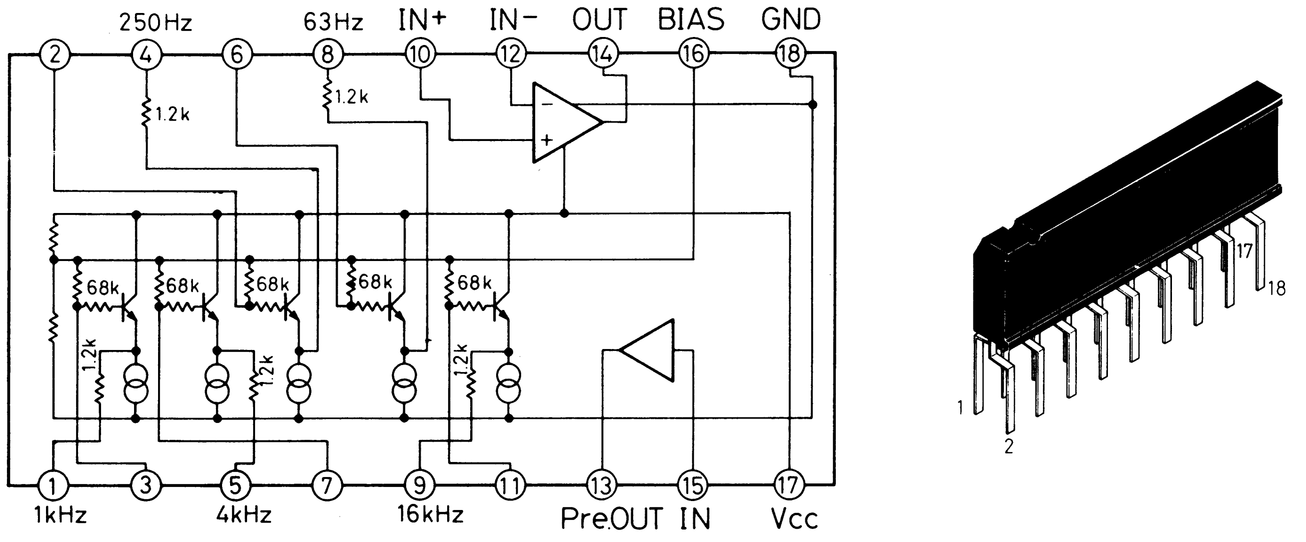

250Hz
63Hz
IN+
IN−
OUT
BIAS
GND
1.2k
68k
1kHz
4kHz
16kHz
PreOUT IN
Vcc
1
2
17
18

Fig. 5-4

• **TA7739P**

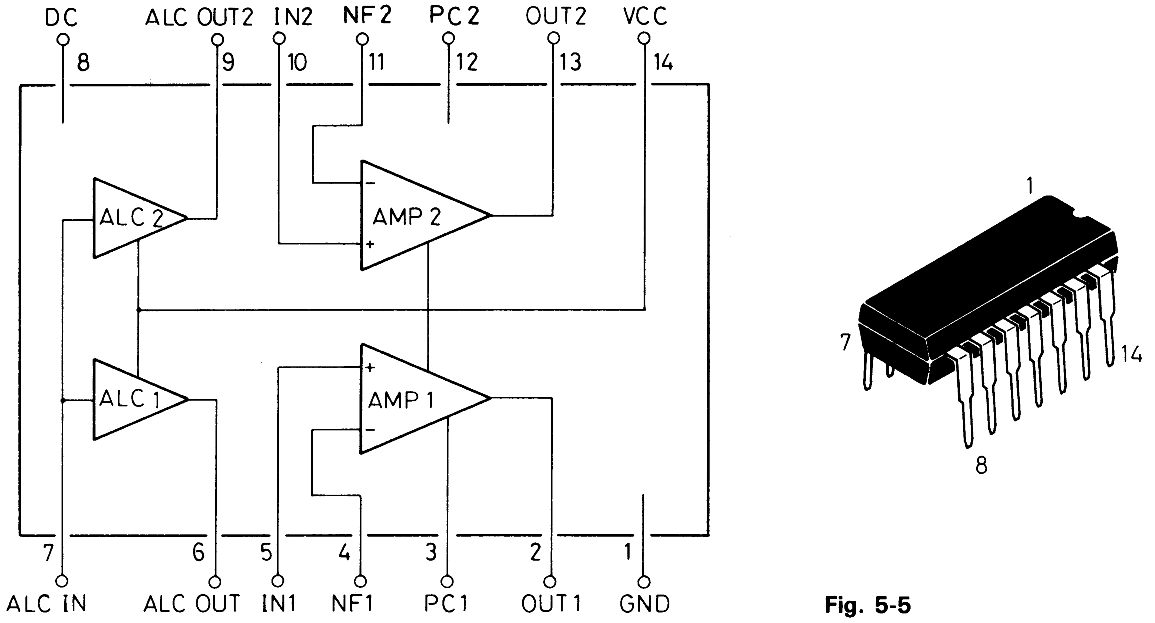

DC
ALC OUT2
IN2
NF2
PC2
OUT2
VCC
ALC 2
AMP 2
ALC 1
AMP 1
ALC IN
ALC OUT
IN1
NF1
PC1
OUT1
GND
1
7
14
8

Fig. 5-5

• **LA3220**

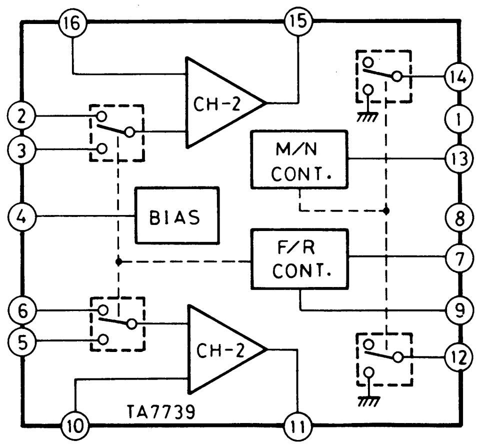
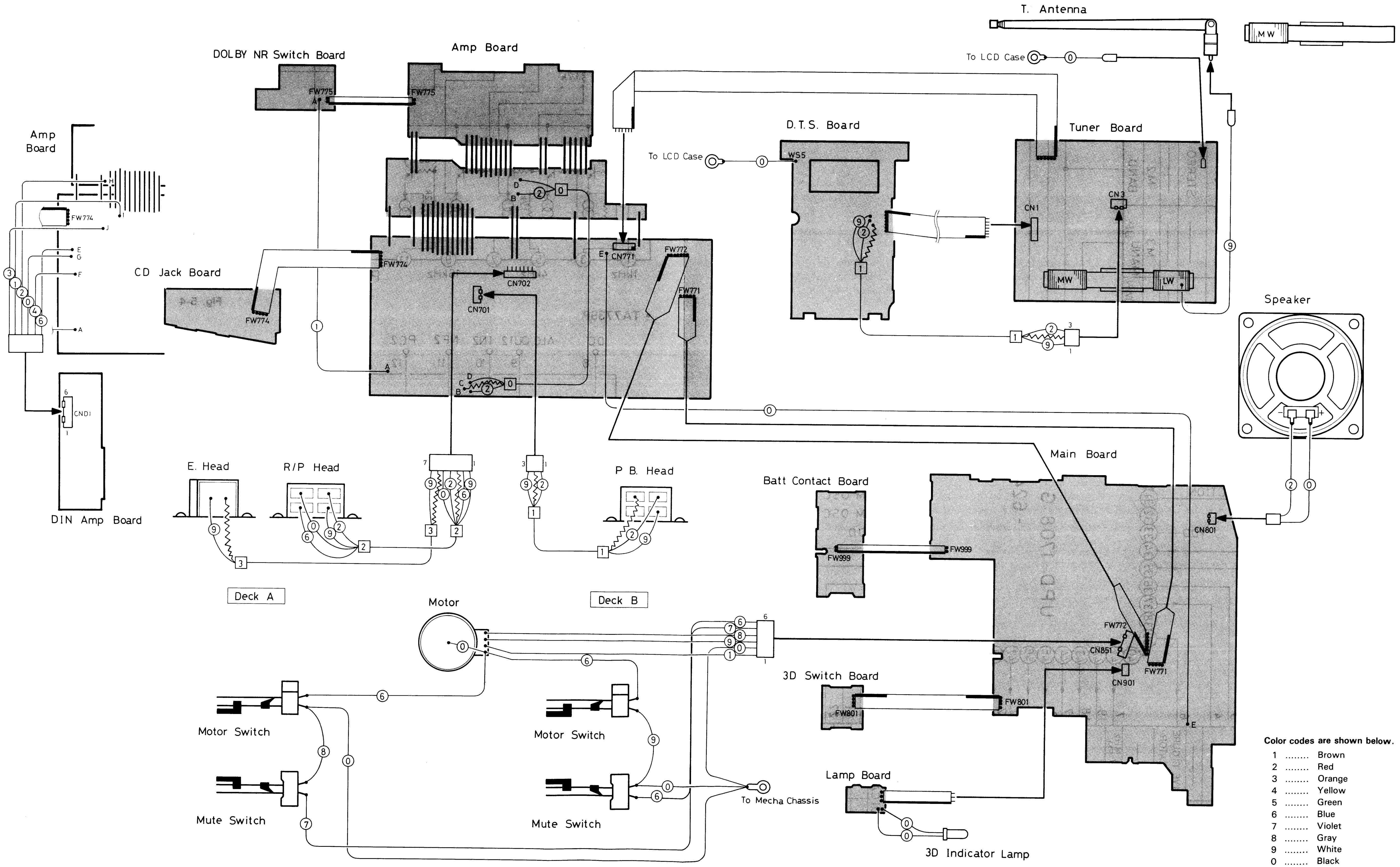

CH-2
M/N CONT.
BIAS
F/R CONT.
CH-2
TA7739

Fig. 5-6

6 Wiring Connections

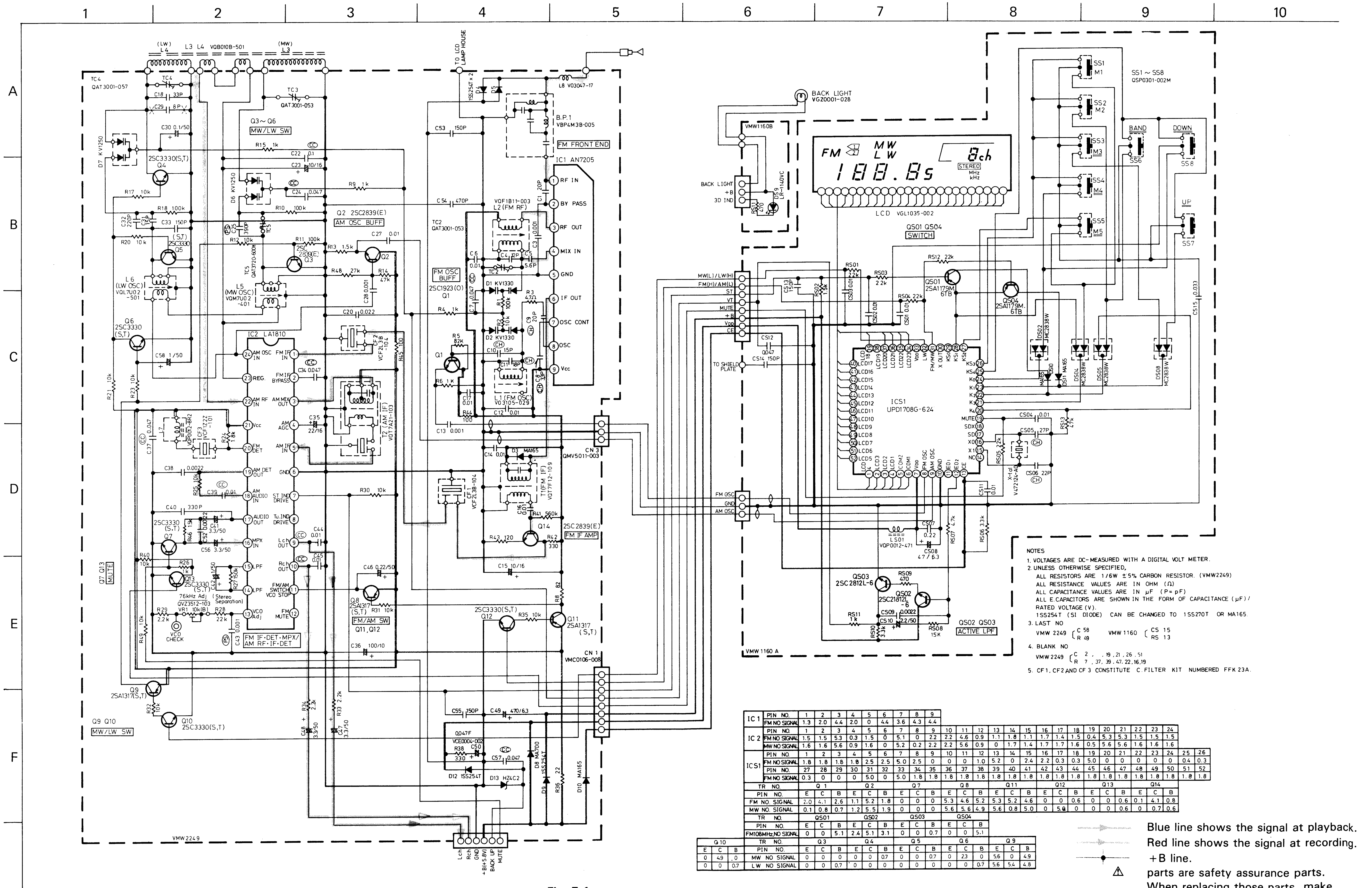

T. Antenna
MW
To LCD Case
DOLBY NR Switch Board
Amp Board
FW775
D.T.S. Board
Tuner Board
To LCD Case
WS5
CN1
CN3
MW
LW
Amp Board
FW774
CD Jack Board
FW774
CN771
FW772
FW771
CN702
CN701
DIN Amp Board
CND1
Speaker
Main Board
E. Head
R/P Head
P B. Head
Batt Contact Board
FW999
FW999
CN801
Deck A
Deck B
Motor
Motor Switch
Mute Switch
Motor Switch
Mute Switch
To Mecha Chassis
3D Switch Board
FW801
FW801
FW772
CN851
FW771
CN901
Lamp Board
3D Indicator Lamp

Color codes are shown below.

1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Gray
9	White
0	Black
D	Pink
C	Light Blue

Fig. 6-1

7 Standard Schematic Diagram Tuner Circuit (B/E/G/V Version)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
(LW) L4
L3 L4 VQB010B-501
(MW) L3
TC4 QAT3001-057
TC3 QAT3001-053
Q3～Q6 MW/LW SW
D7 KV1250
2SC3330(S,T) Q4
D6 KV1250
Q2 2SC2839(E) AM OSC BUFF
L6 (LW OSC) VQL7U02-501
L5 (MW OSC) VQM7U02-401
Q6 2SC3330 (S,T)
IC2 LA1810
CF3 VCF2Z2Z
CF2 VCF2L3B-104
T2 (AM IF) VQT7A21-103
Q7 Q13 MUTE
76kHz Adj (Stereo Separation)
QVZ3512-103 VR1 10k(B)
VCO CHECK
FM IF·DET·MPX/ AM RF·IF·DET
Q8 2SA1317 (S,T)
FM/AM SW Q11,Q12
2SC3330(S,T) Q12
Q11 2SA1317 (S,T)
Q9 2SA1317(S,T)
Q10 2SC3330(S,T)
Q9 Q10 MW/LW SW
VMW2249
TO LCD LAMP HOUSE
L8 VQ3047-17
B.P.1 VBP4M3B-005
FM FRONT END
IC1 AN7205
RF IN
BY PASS
RF OUT
MIX IN
GND
IF OUT
OSC CONT
OSC
Vcc
VQF1B11-003 L2 (FM RF)
TC2 QAT3001-053
FM OSC BUFF 2SC1923(O) Q1
D1 KV1330
D2 KV1330
L1 (FM OSC) VQ3105-029
CN 3 QMV5011-003
T1(FM IF) VQT7F12-109
CF1 VCF2L3B-104
Q14 2SC2839(E) FM IF AMP
CN 1 VMC0106-008
Q047F VCE0004-002
D12 1SS254T
D13 HZ4C2
D8 MA700
D9 1SS254T
D10 MA165
Lch
Rch
GND
+B(+5.8V)
BACK UP
MUTE
BACK LIGHT VGZ0001-028
VMW1160B
BACK LIGHT
+B
3D IND
DS9 LR-1140VC
LCD VGL1035-002
QS01 QS04 SWITCH
SS1～SS8 QSP0301-002M
SS1 M1
SS2 M2
SS3 M3
SS4 M4
SS5 M5
BAND SS6
DOWN SS8
UP SS7
MW(L)/LW(H)
FM(H)/AM(L)
ST
VT
MUTE
+B
VDD
CE
TO SHIELD PLATE
QS01 2SA1179M 6TB
QS04 2SA1179M 6TB
ICS1 UPD1708G-624
X-tal V47212K-40
FM OSC
GND
AM OSC
LS01 VQP0012-471
QS03 2SC2812L-6
QS02 2SC2812L-6
QS02 QS03 ACTIVE LPF
VMW1160 A

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. UNLESS OTHERWISE SPECIFIED,
ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR. (VMW2249)
ALL RESISTANCE VALUES ARE IN OHM (Ω)
ALL CAPACITANCE VALUES ARE IN μF (P=pF)
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/ RATED VOLTAGE (V).
1SS254T (SI DIODE) CAN BE CHANGED TO 1SS270T OR MA165.
3. LAST NO
VMW 2249 C 58, R 49 VMW 1160 CS 15, RS 13
4. BLANK NO
VMW 2249 C 2, , 19, 21, 26, 51 R 7, 37, 39, 47, 22, 16, 19
5. CF1, CF2 AND CF3 CONSTITUTE C.FILTER KIT NUMBERED FFK 23A.

IC 1	PIN NO.	1	2	3	4	5	6	7	8	9																	
	FM NO SIGNAL	1.3	2.0	4.4	2.0	0	4.4	3.6	4.3	4.4																	
IC 2	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
	FM NO SIGNAL	1.5	1.5	5.3	0.3	1.5	0	5.1	0	2.2	2.2	4.6	0.9	1.1	1.8	1.1	1.7	1.4	1.5	0.4	5.3	5.3	1.5	1.5	1.5		
	MW NO SIGNAL	1.6	1.6	5.6	0.9	1.6	0	5.2	0.2	2.2	2.2	5.6	0.9	0	1.7	1.4	1.7	1.7	1.6	0.5	5.6	5.6	1.6	1.6	1.6		
ICS1	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	FM NO SIGNAL	1.8	1.8	1.8	1.8	2.5	2.5	5.0	2.5	0	0	0	1.0	5.2	0	2.4	2.2	0.3	0.3	5.0	0	0	0	0	0	0.4	0.3
	PIN NO.	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
	FM NO SIGNAL	0.3	0	0	0	5.0	0	5.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

TR NO.	Q 1			Q 2			Q 7			Q 8			Q11			Q12			Q13			Q14		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
FM NO. SIGNAL	2.0	4.1	2.6	1.1	5.2	1.8	0	0	0	5.3	4.6	5.2	5.3	5.2	4.6	0	0	0.6	0	0	0.6	0.1	4.1	0.8
MW NO. SIGNAL	0.1	0.8	0.7	1.2	5.5	1.9	0	0	0	5.6	5.6	4.9	5.6	0.8	5.0	0	5.0	0	0	0	0.6	0	0.7	0.6

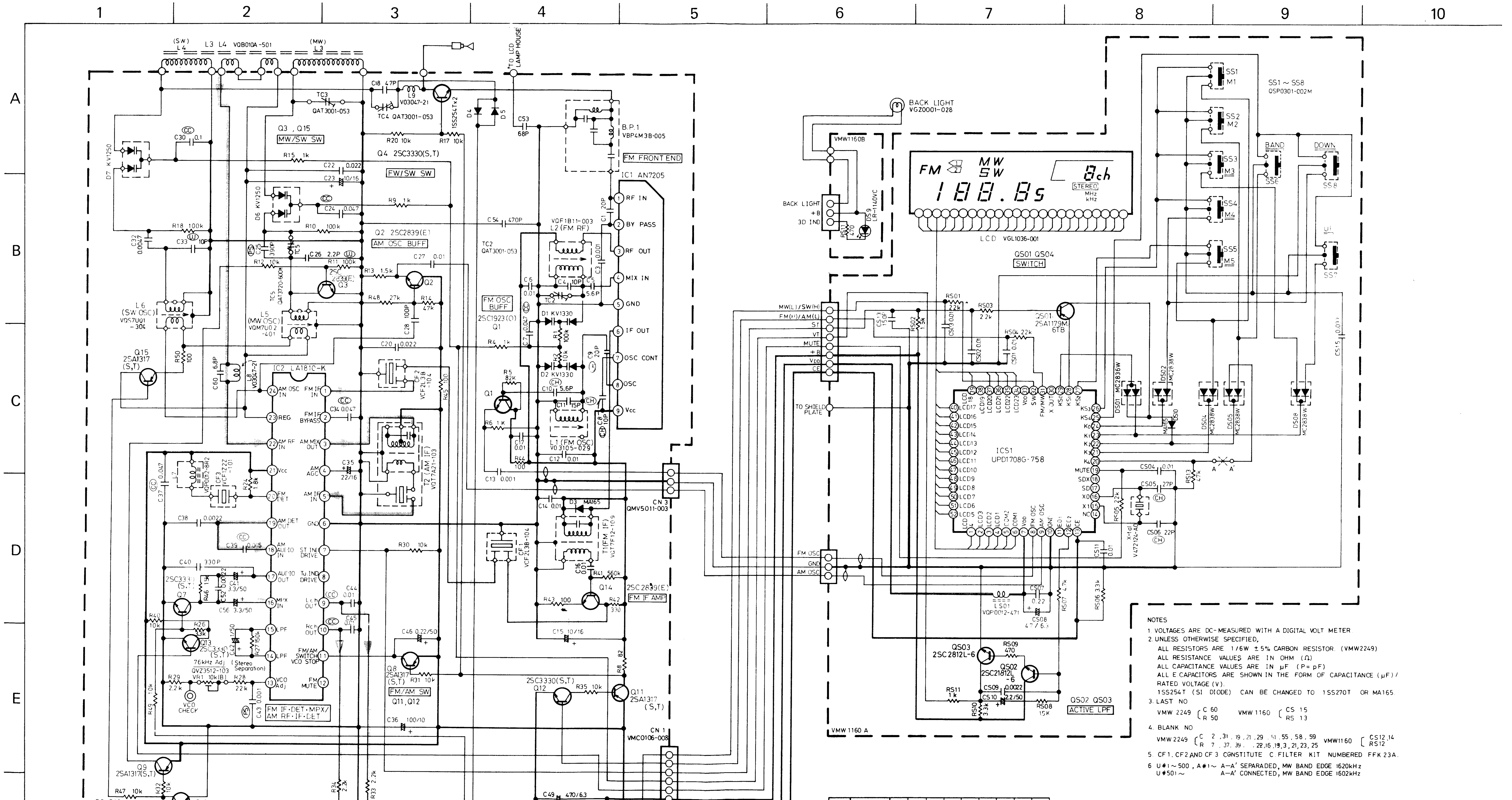
TR NO.	QS01			QS02			QS03			QS04		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B
FM108MHz,NO SIGNAL	0	0	5.1	2.4	5.1	3.1	0	0	0.7	0	0	5.1

Q 10			TR NO.	Q 3			Q 4			Q 5			Q 6			Q 9		
E	C	B	PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
0	4.9	0	MW NO SIGNAL	0	0	0	0	0	0.7	0	0	0.7	0	2.3	0	5.6	0	4.9
0	0	0.7	LW NO SIGNAL	0	0	0.7	0	0	0	0	0	0	0	0	0.7	5.6	5.4	4.8

Fig. 7-1

Blue line shows the signal at playback.
Red line shows the signal at recording.
+B line.
⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Standard Schematic Diagram Tuner Circuit (A/U Version)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
(SW) L4 L3 L4 VQB010A-501
(MW) L3
TO LCD LAMP HOUSE
TC3 QAT3001-053
Q3, Q15 MW/SW SW
C18 47P
L9 VQ3047-21
TC4 QAT3001-053
1SS254Tx2
D4
D5
C53 68P
B.P.1 VBP4M3B-005
FM FRONT END
IC1 AN7205
R20 10k
R17 10k
Q4 2SC3330(S,T)
FW/SW SW
D7 KV1250
C30 0.1
R15 1k
C22 0.022
C23 10/16
D6 KV1250
C24 0.047
R9 1k
R18 100k
C32 0.0047
C33 10P
R10 100k
Q2 2SC2839(E)
AM OSC BUFF
C54 470P
TC2 QAT3001-053
VQF1B11-003 L2 (FM RF)
1 RF IN
2 BY PASS
3 RF OUT
4 MIX IN
5 GND
6 IF OUT
7 OSC CONT
8 OSC
9 Vcc
C26 2.2P
R11 100k
C27 0.01
R12 10k
TC5 QAT3720-600M
R13 1.5k
Q3
Q2
R48 27k
R14 47k
C28 100P
L6 (SW OSC) VQS7U01-304
L5 (MW OSC) VQM7U0 2-401
FM OSC BUFF 2SC1923(O) Q1
C6 0.01
C4 10P
C5 5.6P
D1 KV1330
R1 100k
R2 10k
C9 20P
D2 KV1330
C10 5.6P
C11 15P
L1 (FM OSC) VQ3105-029
C12 0.01
C13 0.001
R5 82K
R6 1k
R4 1k
C20 0.022
Q15 2SA1317 (S,T)
R50 100
C60 6.8P
L8 VQ3047-21
IC2 LA1810-K
24 AM OSC IN
1 FM IF IN
23 REG
2 FM IF BYPASS
22 AM RF IN
3 AM MIX OUT
21 Vcc
4 AM AGC
20 FM DET
5 AM IF IN
19 AM DET OUT
6 GND
18 AM AUDIO IN
7 ST IND DRIVE
17 AUDIO OUT
8 Tu IND DRIVE
16 MPX IN
9 Lch OUT
15 LPF
10 Rch OUT
14 LPF
11 FM/AM SWITCH VCO STOP
13 VCO Adj
12 FM MUTE
C34 0.047
C35 22/16
VCF2L3B-104
T2 (AM IF) VQT7A21-003
C37 0.047
CF3 VCF2L2T1
R24 18k
C38 0.0022
C39 0.015
C40 330P
2SC3331 (S,T) Q7
R46 15k
C56 3.3/50
R26 15k
Q13 2SC3331
76kHz Adj (Stereo Separation) QVZ3512-103 VR1 10k(B)
R29 2.2k
R28 22k
VCO CHECK
C43 0.001
FM IF-DET-MPX/ AM RF-IF-DET
R30 10k
C44 0.01
C45
C46 0.22/50
Q8 2SA1317 (S,T)
R31 10k
FM/AM SW
Q11, Q12
C36 100/10
C14 0.01
D3 MA165
T1 (FM IF) VQT7F12-019
C16 0.01
R41 560k
Q14
2SC2839(E)
FM IF AMP
R43 100
R42 330
C15 10/16
R8 82
2SC3330(S,T) Q12
R35 10k
Q11 2SA1317 (S,T)
CN 3 QMV5011-003
CN 1 VMC0106-008
Q9 2SA1317(S,T)
R47 10k
R32 10k
Q10 2SC3330(S,T)
Q9 Q10 MW/SW SW
R34 2.2k
R33 2.2k
C48 3.3/50
C47 3.3/50
C49 470/6.3
Q047F VCE0004-002
R38 330
C50
C57 0.047
D12 1SS254T
D13 HZ4C2
D8 MA700
D9 1SS254T
R36 22
D10 MA165
VMW2249
Lch Rch GND +B(+5.8V) BACK UP MUTE
BACK LIGHT VGZ0001-028
VMW1160B
BACK LIGHT +B 3D IND
RS1 470
DS9 LR-1140VC
FM MW SW 188.8s 8ch STEREO MHz kHz
LCD VGL1036-001
QS01 QS04 SWITCH
SS1 M1
SS2 M2
SS3 M3
SS4 M4
SS5 M5
SS1 ~ SS8 QSP0301-002M
BAND SS6
DOWN SS8
SS7
MW(L)/SW(H)
FM(H)/AM(L)
ST
VT
MUTE
+B
Vcc
CE
TO SHIELD PLATE
RS01 22k
RS03 22k
RS02 15k
CS01
CS02 0.01
RS04 22k
CS03 0.01
QS01 2SA1179M 6TB
DS01 MC2836W
DS02 MC2838W
DS03
DS04 MC2838W
DS05 MC2838W
DS06 MC2836W
CS15
ICS1 UPD1708G-758
KS3
KS4
Ko
K1
K2
K3
K4
MUTE
SDX
SDI
XO
X1
NC
LCD18
LCD17
LCD16
LCD15
LCD14
LCD13
LCD12
LCD11
LCD10
LCD9
LCD8
LCD7
LCD6
LCD5
LCD4
LCD3
LCD2
LCD1
LCD COM
Vdd
AM OSC
FM OSC
GND
EO1
EO2
CE
CS04 0.01
CS05 27P
RS13 47k
A A'
RS05 22k
X-tal VX272Z4-A
CS06 22P
FM OSC
GND
AM OSC
CS11 0.01
CS07 0.22
LS01 VQP0012-471
CS08 4.7/6.3
RS07 4.7k
RS06 3.3k
QS03 2SC2812L-6
RS09 470
QS02 2SC2181ZL-6
CS09 0.0022
CS10 22/50
RS11 1k
RS10 3.3k
RS08 15k
QS02 QS03 ACTIVE LPF
VMW 1160 A

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. UNLESS OTHERWISE SPECIFIED,
   ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR. (VMW2249)
   ALL RESISTANCE VALUES ARE IN OHM (Ω)
   ALL CAPACITANCE VALUES ARE IN μF (P= pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/ RATED VOLTAGE (V).
   1SS254T (SI DIODE) CAN BE CHANGED TO 1SS270T OR MA165.
3. LAST NO
   VMW 2249 [C 60, R 50] VMW 1160 [CS 15, RS 13]
4. BLANK NO
   VMW 2249 [C 2, 31, 19, 21, 29, 51, 55, 58, 59; R 7, 37, 39, 22, 16, 19, 3, 21, 23, 25] VMW1160 [CS12, 14; RS12]
5. CF1, CF2 AND CF3 CONSTITUTE C.FILTER KIT NUMBERED FFK 23A.
6. U#1~500, A#1~ A—A' SEPARADED, MW BAND EDGE 1620kHz
   U#501~ A—A' CONNECTED, MW BAND EDGE 1602kHz

IC 1	PIN NO.	1	2	3	4	5	6	7	8	9																
	FM NO SIGNAL	1.3	2.0	4.4	2.0	0	4.4	3.6	4.3	4.4																
IC 2	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	FM NO SIGNAL	1.5	1.5	5.3	0.3	1.5	0	5.1	0	2.2	2.2	4.6	0.9	1.1	1.8	1.1	1.7	1.4	1.5	0.4	5.3	5.3	1.5	1.5	1.5	
	MW NO SIGNAL	1.6	1.6	5.6	0.9	1.6	0	5.2	0.2	2.2	2.2	5.6	0.9	0	1.7	1.4	1.7	1.7	1.6	0.5	5.6	5.6	1.6	1.6	1.6	
ICS1	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	FM NO SIGNAL	1.8	1.8	1.8	1.8	2.5	2.5	5.0	2.5	0	0	0	1.0	5.2	0	2.4	2.2	0.3	0.3	5.0	0	0	0	0	0	0.4	0.3
	PIN NO.	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
	FM NO SIGNAL	0.3	0	0	0	5.0	0	5.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

TR NO.	Q 1			Q 2			Q 7			Q 8			Q 11			Q12			Q13			Q14			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
FM NO. SIGNAL	2.0	4.1	2.6	1.1	5.2	1.8	0	0	0	5.3	4.6	5.2	5.3	5.2	4.6	0	0	0.6	0	0	0.6	0.1	4.1	0.8	0	0	0.7
MW NO. SIGNAL	0.1	0.8	0.7	1.2	5.5	1.9	0	0	0	5.6	5.6	4.9	5.6	0.8	5.0	0	5.0	0	0	0	0.6	0	0.7	0.6	0	0	0.3

TR NO.	QS01			QS02			QS03		
PIN NO.	E	C	B	E	C	B	E	C	B
FM108MHz,NO SIGNAL	0	0	5.1	2.4	5.1	3.1	0	0	0.7

TR NO.	Q3			Q15						Q10			Q 9		
PIN NO.	E	C	B	E	C	B				E	C	B	E	C	B
MW NO SIGNAL	0	0	0	1.6	1.6	4.9				0	4.9	0	5.6	0	4.9
SW NO SIGNAL	0	0	0.7	1.6	1.6	1.0				0	0	0.7	5.6	5.4	4.8

Blue line shows the signal at playback.

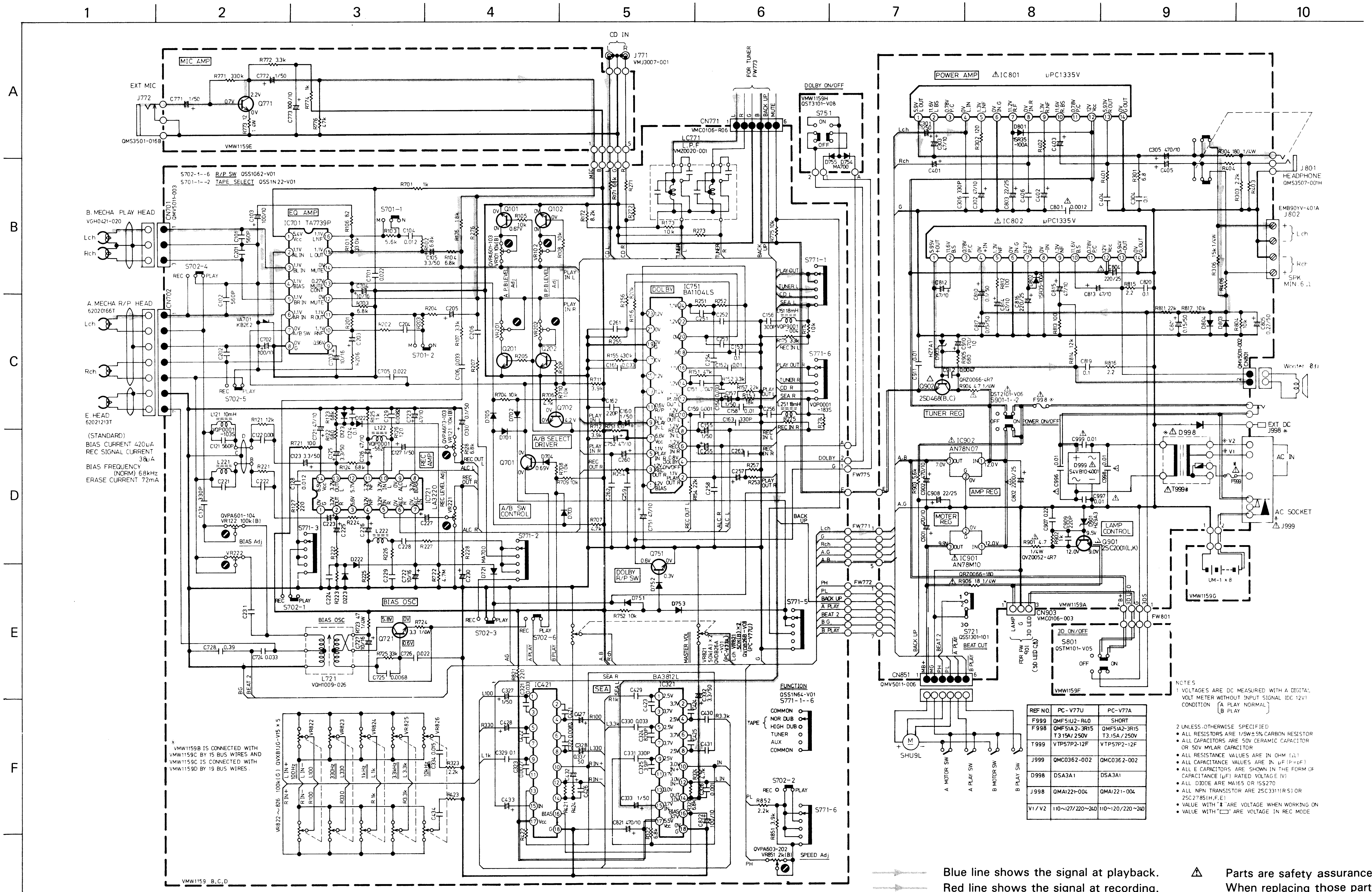
Red line shows the signal at recording.

—●— +B line.

⚠ arts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Fig. 7-2

Standard Schematic Diagram Amplifier Circuit (A/U Version)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
MIC AMP
EXT MIC
J772
CD IN
J771
FOR TUNER FW773
DOLBY ON/OFF
S751
POWER AMP
IC801 uPC1335V
IC802 uPC1335V
J801 HEADPHONE
J802
SPK MIN 6Ω
Woofer 6Ω
B. MECHA PLAY HEAD
A. MECHA R/P HEAD
E. HEAD
(STANDARD)
BIAS CURRENT 420uA
REC SIGNAL CURRENT 38uA
BIAS FREQUENCY (NORM) 68kHz
ERASE CURRENT 72mA
EQ AMP
IC701 TA7739P
REC AMP
IC721 LA3220
DOLBY
IC751 BA1104LS
A/B SELECT DRIVER
A/B SW CONTROL
DOLBY R/P SW
BIAS OSC
L721 VQH1009-026
TUNER REG
POWER ON/OFF
IC902 AN78N07
AMP REG
MOTOR REG
IC901 AN78M10
LAMP CONTROL
AC IN
EXT DC J998
AC SOCKET J999
UM-1 x 8
IC421
IC321 BA3812L
SEA
FUNCTION
S721 BEAT CUT
3D ON/OFF S801
CN851
SHU9L
A MOTOR SW
A PLAY SW
B MOTOR SW
B PLAY SW
SPEED Adj
BIAS Adj
MASTER VOL
VMW1159B IS CONNECTED WITH VMW1159C BY 15 BUS WIRES AND VMW1159C IS CONNECTED WITH VMW1159D BY 19 BUS WIRES.
VMW1159 B,C,D

REF NO.	PC-V77U	PC-V77A
F999	QMF51U2-R40	SHORT
F998	QMF51A2-3R15 T3 15A/250V	QMF51A2-3R15 T3.15A/250V
T999	VTP57P2-12F	VTP57P2-12F
J999	QMC0362-002	QMC0362-002
D998	DSA3A1	DSA3A1
J998	QMA1221-004	QMA1221-004
V1/V2	110~127/220~240	110~120/220~240

NOTES

1 VOLTAGES ARE DC MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL (DC 12V) CONDITION (A PLAY NORMAL / B PLAY)

2 UNLESS OTHERWISE SPECIFIED

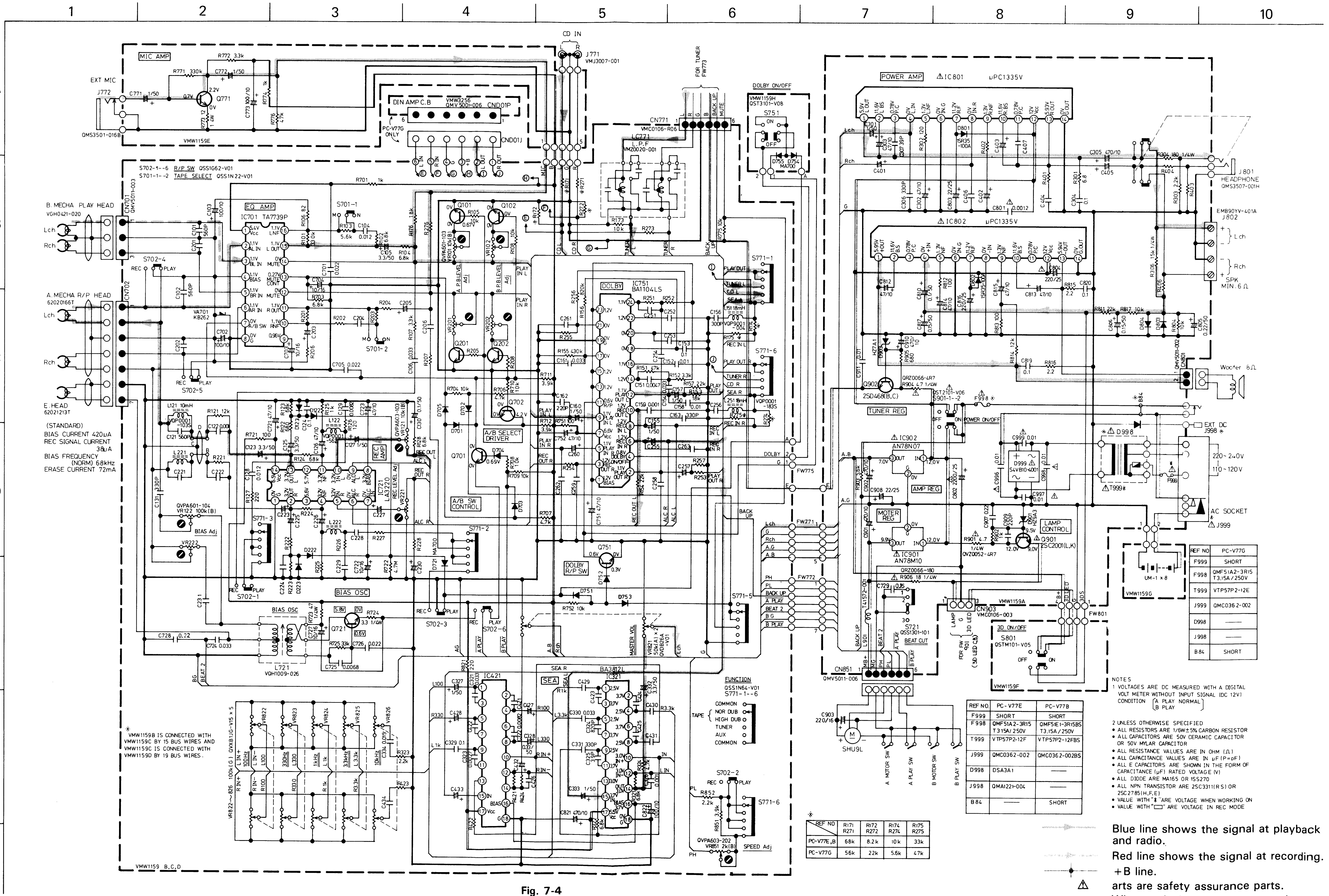
- ALL RESISTORS ARE 1/5W±5% CARBON RESISTOR
- ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR
- ALL RESISTANCE VALUES ARE IN OHM (Ω)
- ALL CAPACITANCE VALUES ARE IN μF (P=pF)
- ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF) RATED VOLTAGE (V)
- ALL DIODE ARE MA165 OR 1SS270
- ALL NPN TRANSISTOR ARE 2SC3311(R S) OR 2SC2785(H,F,E)
- VALUE WITH "*" ARE VOLTAGE WHEN WORKING ON
- VALUE WITH "▭" ARE VOLTAGE IN REC MODE

Fig. 7-3

Blue line shows the signal at playback.
Red line shows the signal at recording.
+B line.

⚠ Parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Standard Schematic Diagram Amplifier Circuit (B/E/G/V Version)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
MIC AMP
EXT MIC
J772
QMS3501-016B
VMW1159E
DIN AMP C.B
VMW3256
QMV5001-006
CND01P
CND01J
PC-V77G ONLY
CD IN
J771
VMJ3007-001
FOR TUNER
FW773
CN771
VMC0106-R06
L.P.F
VMZ0020-001
DOLBY ON/OFF
VMW1159H
QST3101-V08
S751
POWER AMP
IC801
uPC1335V
IC802
uPC1335V
HEADPHONE
J801
QMS3507-001H
EMB90YV-401A
J802
SPK MIN. 6Ω
Woofer 6Ω
S702-1~6 R/P SW QSS1G62-V01
S701-1~2 TAPE SELECT QSS1N22-V01
B. MECHA PLAY HEAD
VGH0421-020
Lch
Rch
CN701
QMV5011-003
CN702
A. MECHA R/P HEAD
62020166T
E.HEAD
62021213T
(STANDARD)
BIAS CURRENT 420µA
REC SIGNAL CURRENT 38µA
BIAS FREQUENCY (NORM) 68kHz
ERASE CURRENT 72mA
EQ AMP
IC701 TA7739P
S701-1
S701-2
S702-4
S702-5
VA701
KB262
A.P.BLEVEL Adj
B.P.BLEVEL Adj
Q101
Q102
Q201
Q202
Q701
Q702
A/B SELECT DRIVER
A/B SW CONTROL
DOLBY
IC751
BA1104LS
DOLBY R/P SW
Q751
S771-1
S771-6
S771-2
S771-3
S771-5
TUNER REG
Q902
2SD468(B,C)
ST2101-V06
S901-1-2
POWER ON/OFF
IC902
AN78N07
AMP REG
D999
S4VB10-4001
D998
T999
EXT DC
J998
220~240V
110~120V
AC SOCKET
J999
MOTER REG
IC901
AN78M10
LAMP CONTROL
Q901
2SC2001(L,K)
UM-1 x 8
VMW1159G
REC AMP
IC721
LA3220
REC LEVEL Adj
QVPA601-104
VR122 100k(B)
BIAS Adj
BIAS OSC
Q721
L721
VQH1009-026
S702-1
S702-3
S702-6
MASTER VOL
VR821
50k(A) x 2
QVZB26A-V01
SEA
IC421
SEA R
BA3812L
IC321
FUNCTION
QSS1N64-V01
S771-1~6
TAPE
NOR DUB
HIGH DUB
TUNER
AUX
COMMON
S702-2
QVPA603-202
VR851 2k(B)
SPEED Adj
VR822~826 100k(G) QVXB1JG-V15 x 5
VMW1159 B,C,D
CN851
QMV5011-006
SHU9L
CN903
VMC0106-003
S721
QSS1301-101
BEAT CUT
3D ON/OFF
S801
QSTM101-V05
OFF
ON
VMW1159F
FW801
FW771
FW772
FW775
A MOTOR SW
A PLAY SW
B MOTOR SW
B PLAY SW

*
VMW1159B IS CONNECTED WITH
VMW1159C BY 15 BUS WIRES AND
VMW1159C IS CONNECTED WITH
VMW1159D BY 19 BUS WIRES.

*

REF NO	R171 R271	R172 R272	R174 R274	R175 R275
PC-V77E,B	68k	8.2k	10k	33k
PC-V77G	56k	22k	5.6k	47k

REF NO.	PC-V77E	PC-V77B
F999	SHORT	SHORT
F998	QMF51A2-3R15 T3 15A/ 250V	QMF51E1-3R15BS T3.15A / 250V
T999	VTP57P2-12F	VTP57P2-12FBS
J999	QMC0362-002	QMC0362-002BS
D998	DSA3A1	——
J998	QMA1221-004	——
B84	——	SHORT

REF NO	PC-V77G
F999	SHORT
F998	QMF51A2-3R15 T3.15A / 250V
T999	VTP57P2-12E
J999	QMC0362-002
D998	——
J998	——
B84	SHORT

NOTES

1 VOLTAGES ARE DC MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL (DC 12V) CONDITION (A PLAY NORMAL, B PLAY)

2 UNLESS OTHERWISE SPECIFIED
- ALL RESISTORS ARE 1/6W±5% CARBON RESISTOR
- ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR
- ALL RESISTANCE VALUES ARE IN OHM (Ω)
- ALL CAPACITANCE VALUES ARE IN µF (P=pF)
- ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (µF) RATED VOLTAGE (V)
- ALL DIODE ARE MA165 OR 1SS270
- ALL NPN TRANSISTOR ARE 2SC3311(R S) OR 2SC2785(H,F,E)
- VALUE WITH "*" ARE VOLTAGE WHEN WORKING ON
- VALUE WITH "▭" ARE VOLTAGE IN REC MODE

Blue line shows the signal at playback and radio.

Red line shows the signal at recording.

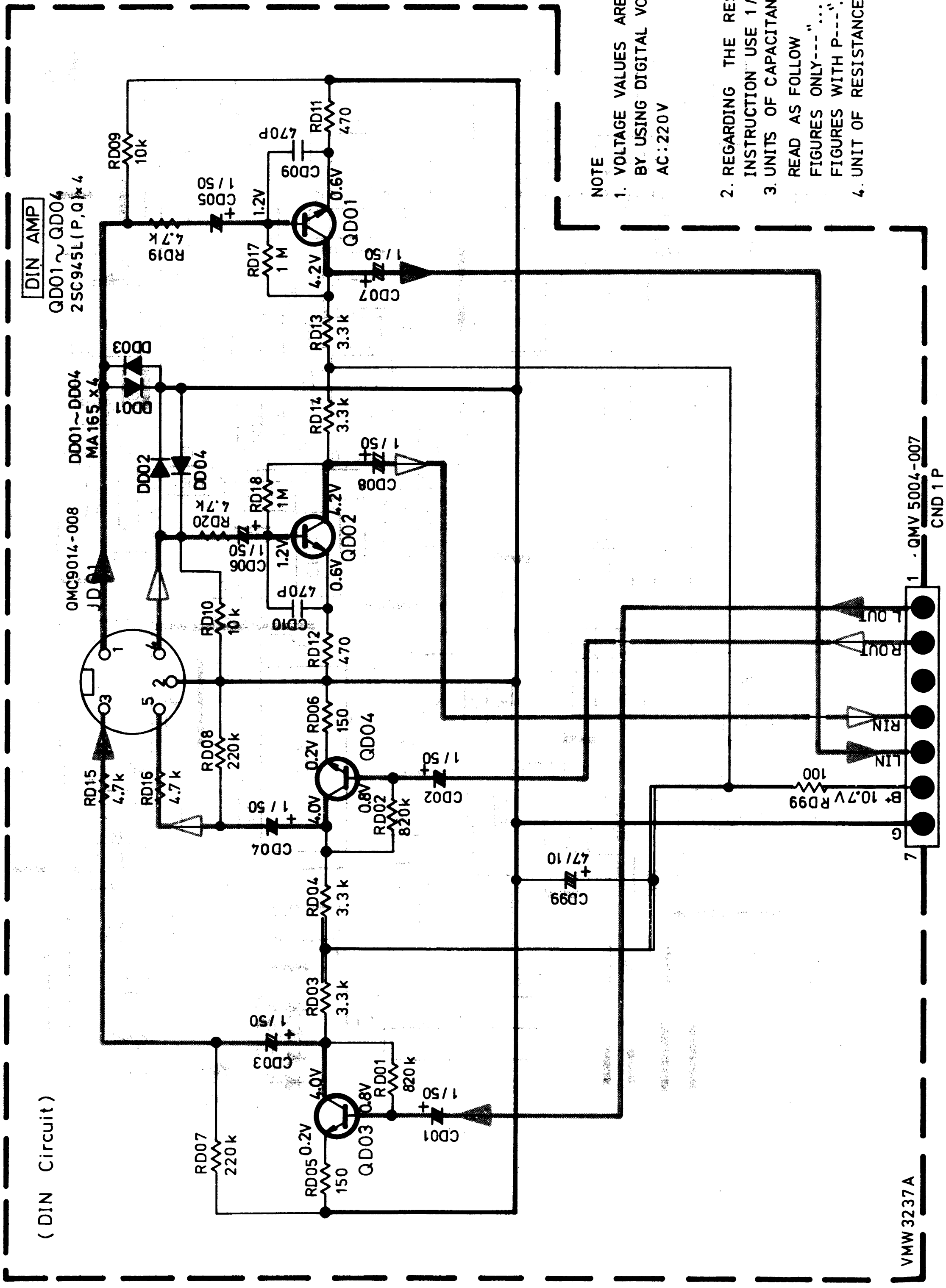
+B line.

⚠ arts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Fig. 7-4

Standard Schematic Diagram Din Circuit (G/V Version)

Blue line shows the signal at playback.
Red line shows the signal at recording.
+B circuit.


DIN AMP
QD01～QD04
2SC945L(P,Q)×4
DD01~DD04
MA165 x4
QMC9014-008
JD01
RD09 10k
RD11 470
CD09 470P
CD05 1/50
RD19 4.7k
RD17 1M
QD01
1.2V
0.6V
4.2V
CD07 1/50
RD13 3.3k
DD03
DD01
DD02
DD04
RD14 3.3k
CD08 1/50
RD18 1M
RD20 4.7k
CD06 1/50
QD02
1.2V
0.6V
4.2V
CD10 470P
RD10 10k
RD12 470
1
2
3
4
5
RD15 4.7k
RD16 4.7k
RD08 220k
RD06 150
QD04
0.2V
4.0V
0.8V
RD02 820k
CD02 1/50
CD04 1/50
RD04 3.3k
RD03 3.3k
CD03 1/50
RD01 820k
QD03
4.0V
0.8V
0.2V
CD01 1/50
RD07 220k
RD05 150
CD99 47/10
RD99 100
B+ 10.7V
L OUT
R OUT
RIN
LIN
G
1
7
QMV 5004-007
CND1P
(DIN Circuit)
VMW3237A

NOTE
1. VOLTAGE VALUES ARE MEASURED WITH NO SIGNAL BY USING DIGITAL VOLTMETER IN PLAYBACK MODE AC:220V
2. REGARDING THE RESISTOR WITH OUT SPECIAL INSTRUCTION USE 1/6W RESISTOR.
3. UNITS OF CAPACITANCE VALUES SHOULD BE READ AS FOLLOW
FIGURES ONLY---"...µF"
FIGURES WITH P---"...pF"
4. UNIT OF RESISTANCE VALUES (ohm-Ω) IS OMITED.

Fig. 7-5

8 Location of P.C. Board Parts and Parts List

■ Tuner (B/E/G/V Version)

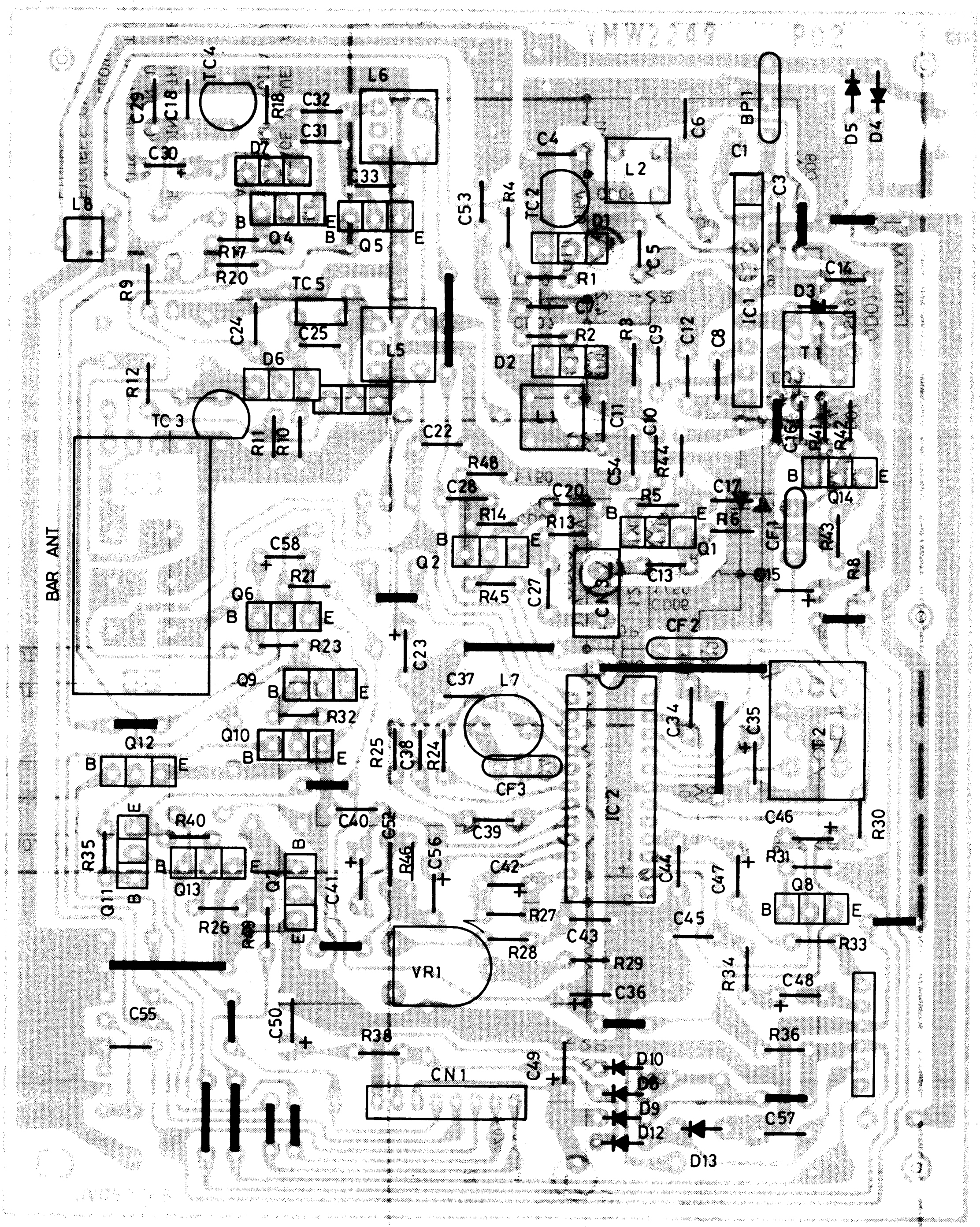

TC4
C29
C18
R18
C32
C31
C30
D7
L6
C33
L8
B
Q4
E
B
Q5
E
R17
R20
R9
TC5
C24
C25
L5
D6
R12
TC3
R11
R10
BAR ANT
C58
R21
Q6
B
E
R23
Q9
B
E
R32
Q10
B
E
Q12
B
E
R40
R35
Q11
B
Q13
E
Q7
R26
C41
C40
C52
R46
C56
C23
C22
R48
C28
R14
B
Q2
E
R45
C27
C37
L7
R25
C38
R24
CF3
C39
C42
R27
R28
VR1
C50
R38
CN1
C55
C53
R4
TC2
C4
L2
D1
R1
C5
C7
R2
R3
C9
C12
C8
D2
L1
C11
C10
C54
R44
C20
R13
R5
B
E
Q1
C13
R6
C17
CF1
CF2
IC2
C34
C35
C44
C47
C43
R29
C36
C49
D10
D8
D9
D12
D13
C6
BP1
C1
C3
IC1
C14
D3
T1
C16
R41
R42
B
Q14
E
R43
R8
R15
T2
C46
R30
R31
Q8
B
E
C45
R33
R34
C48
R36
C57
D5
D4

Fig. 8-1

Tuner Board Parts List (B/E/G/V Version)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	BP01	VBP4M3B-005	BP FILTER
	CN01	VMC0106-008	CONNECTOR
	CN03	QMV5011-003	CONNECTOR
	C001	QCSB1HJ-200Y	C CAPACITOR
	C003	QCBB1HK-102Y	C.CAPACITOR
	C004	QCS31HJ-120Z	C.CAPACITOR
	C005	QCSB1HK-5R6Y	C CAPACITOR
	C006	QCF31HP-103Z	C.CAPACITOR
	C007	QCC31EM-473ZV	C.CAPACITOR
	C008	QCT30CH-3R3Y	C.CAPACITOR
	C009	QCT30CH-200Y	C.CAPACITOR
	C010	QCT30CH-1R5Y	C CAPACITOR
	C011	QCT30CH-180Y	C.CAPACITOR
	C012	QCF31HP-103Z	C.CAPACITOR
	C013	QCBB1HK-102Y	C.CAPACITOR
	C014	QCF31HP-103Z	C.CAPACITOR
	C015	QETC1CM-106ZN	E.CAPACITOR
	C016	QCVB1CN-103Y	C.CAPACITOR
	C017	QCF31HP-103Z	C.CAPACITOR
	C018	QCSB1HJ-330Y	C.CAPACITOR
	C020	QCF31HP-223Z	C CAPACITOR
	C022	QCC31EM-104ZV	C.CAPACITOR
	C023	QETC1CM-106ZN	E.CAPACITOR
	C024	QCC31EM-473ZV	C.CAPACITOR
	C025	QFS41HJ-391	P.S.CAPACITOR
	C027	QCF31HP-103Z	C.CAPACITOR
	C028	QCBB1HK-102Y	C.CAPACITOR
	C029	QCS31HJ-8R0Z	C.CAPACITOR
	C030	QETC1HM-104Z	E.CAPACITOR
	C031	QCSB1HJ-150Y	C.CAPACITOR
	C032	QCS31HJ-221Z	C.CAPACITOR
	C033	QCS11HJ-151	C.CAPACITOR
	C034	QCC31EM-473ZV	C.CAPACITOR
	C035	QETC1AM-226ZN	E.CAPACITOR
	C036	QETC1AM-107ZN	E.CAPACITOR
	C037	QCC31EM-473ZV	C.CAPACITOR
	C038	QCXB1CM-222Y	C.CAPACITOR
	C039	QCC31EM-103ZV	C.CAPACITOR
	C040	QCBB1HK-331Y	C.CAPACITOR
	C041	QETC1HM-335ZN	E.CAPACITOR
	C042	QETC1HM-105ZN	E.CAPACITOR
	C043	QFS41HJ-102	P.S.CAPACITOR
	C044	QCC31EM-103ZV	C.CAPACITOR
	C045	QCC31EM-103ZV	C.CAPACITOR
	C046	QETC1HM-224ZN	E CAPACITOR
	C047	QETC1HM-335ZN	E.CAPACITOR
	C048	QETC1HM-335ZN	E.CAPACITOR
	C049	QETC0JM-477ZN	E.CAPA.
	C050	VCE0004-002	SUPER CAP.
	C052	QCY41HK-222	C.CAPACITOR
	C053	QCBB1HK-151Y	C.CAPACITOR
	C054	QCBB1HK-471Y	C.CAPACITOR
	C055	QCBB1HK-151Y	C.CAPACITOR
	C056	QETC1HM-335ZN	E.CAPACITOR
	C057	QCC31EM-473ZV	C.CAPACITOR
	C058	QETC1HM-105ZN	E.CAPACITOR
	D001	KV1330	VARI CAP
	D002	KV1330	VARI CAP
	D003	MA165	SI DIODE
	D004	HSS104TJ	SI DIODE
	D005	HSS104TJ	SI DIODE
	D006	KV1250	VARI CAP
	D007	KV1250	VARI CAP
	D008	MA700-TA	Z DIODE
	D009	HSS104TJ	SI DIODE
	D010	HSS104TJ	SI DIODE
	D012	HSS104TJ	SI DIODE
	D013	HZ4C2	Z DIODE
	IC01	AN7205	IC
	IC02	LA1810-K	IC
	L001	V03105-029	OSC COIL
	L002	VQF1B11-003	RF COIL
	L003	VQB010B-501	BAR ANTENA
	L004	VQB010B-501	BAR ANTENA
	L005	VQM7U02-401	OSC COIL(MW)
	L006	VQL7U02-501	OSC COIL(LW)
	L007	VQP0012-8R2	INDUCTOR
	L008	V03047-17	COIL
	Q001	2SC1923(O)E2	TRANSISTOR
	Q002	2SC2839(E)AC	TR ﾃｰﾋﾟﾝｸﾞ
	Q003	2SC2839(E)AC	TR ﾃｰﾋﾟﾝｸﾞ
	Q004	2SC3330(S,T)AC	TRANSISTOR
	Q005	2SC3330(S,T)AC	TRANSISTOR
	Q006	2SC3330(S,T)AC	TRANSISTOR
	Q007	2SC3330(S,T)AC	TRANSISTOR
	Q008	2SA1317(S,T)AC	TRANSISTOR
	Q009	2SA1317(S,T)AC	TRANSISTOR
	Q010	2SC3330(S,T)AC	TRANSISTOR
	Q011	2SA1317(S,T)AC	TRANSISTOR
	Q012	2SC3330(S,T)AC	TRANSISTOR
	Q013	2SC3330(S,T)AC	TRANSISTOR
	Q014	2SC2839(E)AC	TR ﾃｰﾋﾟﾝｸﾞ
	R001	QRD161J-104Y	CARBON RESISTOR
	R002	QRD161J-103Y	CARBON RESISTOR
	R003	QRD161J-4R7Y	C RESISTOR
	R004	QRD161J-102Y	CARBON RESISTOR
	R005	QRD161J-823Y	CARBON RESISTOR
	R006	QRD161J-102Y	CARBON RESISTOR
	R008	QRD161J-820Y	CARBON RESISTOR
	R009	QRD161J-102Y	CARBON RESISTOR
	R010	QRD161J-104Y	CARBON RESISTOR
	R011	QRD161J-104Y	CARBON RESISTOR
	R012	QRD161J-103Y	CARBON RESISTOR
	R013	QRD161J-152Y	CARBON RESISTOR
	R014	QRD161J-473Y	CARBON RESISTOR
	R015	QRD161J-102Y	CARBON RESISTOR
	R017	QRD161J-103Y	CARBON RESISTOR
	R018	QRD161J-104Y	CARBON RESISTOR
	R020	QRD161J-103Y	CARBON RESISTOR
	R021	QRD161J-103Y	CARBON RESISTOR
	R023	QRD161J-103Y	CARBON RESISTOR
	R024	QRD161J-182Y	CARBON RESISTOR
	R025	QRD161J-103Y	CARBON RESISTOR
	R026	QRD161J-332Y	CARBON RESISTOR
	R027	QRD161J-154Y	CARBON RESISTOR
	R028	QRD161J-223Y	CARBON RESISTOR
	R029	QRD161J-222Y	CARBON RESISTOR
	R030	QRD161J-103Y	CARBON RESISTOR
	R031	QRD161J-103Y	CARBON RESISTOR
	R032	QRD161J-103Y	CARBON RESISTOR
	R033	QRD161J-222Y	CARBON RESISTOR
	R035	QRD161J-103Y	CARBON RESISTOR
	R036	QRD161J-220Y	CARBON RESISTOR
	R038	QRD161J-331Y	CARBON RESISTOE
	R040	QRD161J-103Y	CARBON RESISTOR
	R041	QRD161J-564Y	CARBON RESISTOR
	R042	QRD161J-331Y	CARBON RESISTOE
	R043	QRD161J-121Y	CARBON RESISTOR
	R044	QRD161J-101Y	CARBON RESISTOR
	R045	QRD161J-101Y	CARBON RESISTOR
	R046	QRD161J-152Y	CARBON RESISTOR
	R048	QRD161J-273Y	CARBON RESISTOR
	R049	QRD161J-103Y	CARBON RESISTOR
	R34	QRD161J-222Y	CARBON RESISTOR
	TC02	QAT3001-053	T.CAPACITOR
	TC03	QAT3001-053	T.CAPACITOR
	TC04	QAT3001-057	T.CAPACITOR
	TC05	QAT3720-600M	T CAPACITOR
	T001	VQT7F12-109	IFT
	T002	VQT7A21-103	IFT
	VR01	QVZ3512-103	V.RESISTOR

■ Tuner Board (A/U Version)

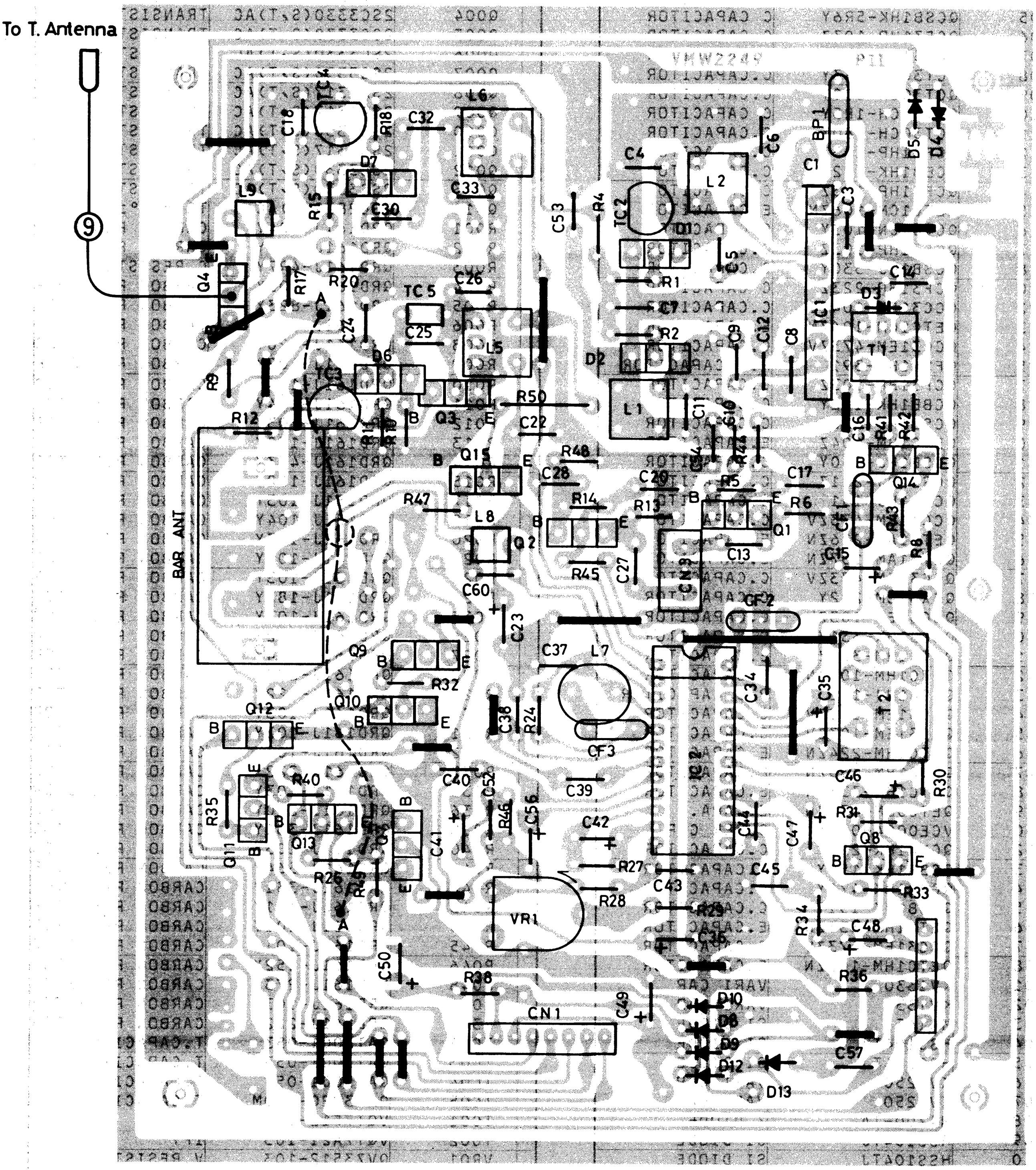

To T. Antenna
⑨
Q4
R17
R20
A
TC5
C26
C24
C25
L5
TC4
C18
R18
C32
L6
D7
R15
C30
C33
L9
R9
R12
TC3
D6
R16
R19
B
Q3
E
R50
C22
D2
L1
C53
R4
IC2
C4
L2
Q1
R1
C7
R2
C5
C9
C12
C8
C11
C10
C6
BP1
C1
C3
D5
D4
C14
D3
IC1
T1
C16
R41
R42
Q14
BAR ANT
Q15
R48
C28
R14
R47
L8
Q2
R13
R5
R44
C29
C17
R6
C19
R43
R8
C13
C15
R45
C27
CN3
CF2
C60
C23
C37
L7
Q9
R32
Q10
C38
R24
CF3
C34
C35
IC2
T2
Q12
R40
C40
C52
C39
C46
R30
R35
Q13
Q11
C41
R46
C56
C42
C44
C47
R31
Q8
R26
R25
R27
C43
C45
R28
VR1
R29
C36
R34
C48
R33
C50
R38
CN1
C49
D10
D8
D9
D12
D13
R36
C57

Fig. 8-2

Tuner Board Parts List (A/U Version)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	BP01	VBP4M3B-005	BP FILTER
	CN01	VMC0106-008	CONNECTOR
	CN03	QMV5011-003	CONNECTOR
	C001	QCSB1HJ-200Y	C CAPACITOR
	C003	QCBB1HK-102Y	C.CAPACITOR
	C004	QCS31HJ-100Z	C.CAPACITOR
	C005	QCSB1HK-5R6Y	C CAPACITOR
	C006	QCF31HP-103Z	C.CAPACITOR
	C007	QCC31EM-473ZV	C.CAPACITOR
	C008	QCT30CH-100Y	C.CAPACITOR
	C009	QCT30CH-200Y	C.CAPACITOR
	C010	QCT30CH-5R6Y	C.CAPACITOR
	C011	QCT30CH-150Y	C CAPACITOR
	C012	QCF31HP-103Z	C.CAPACITOR
	C013	QCBB1HK-102Y	C.CAPACITOR
	C014	QCF31HP-103Z	C.CAPACITOR
	C015	QETC1CM-106ZN	E.CAPACITOR
	C016	QCVB1CN-103Y	C.CAPACITOR
	C017	QCF31HP-103Z	C.CAPACITOR
	C020	QCF31HP-223Z	C CAPACITOR
	C022	QCF31HP-223Z	C CAPACITOR
	C023	QETC1CM-106ZN	E.CAPACITOR
	C024	QCC31EM-473ZV	C.CAPACITOR
	C025	QFS41HJ-391	P.S.CAPACITOR
	C026	QCT30CH-2R2Y	C.CAPACITOR
	C027	QCF31HP-103Z	C.CAPACITOR
	C028	QCBB1HK-101Y	C.CAPACITOR
	C029	QCSB1HJ-300Y	C CAPACITOR
	C030	QCC31EM-473ZV	C.CAPACITOR
	C032	QCY31HK-472Z	C.CAPACITOR
	C033	QCT30UJ-6R8Y	C.CAPACITOR
	C034	QCC31EM-473ZV	C.CAPACITOR
	C035	QETC1AM-226ZN	E.CAPACITOR
	C036	QETC1AM-107ZN	E.CAPACITOR
	C037	QCC31EM-473ZV	C.CAPACITOR
	C038	QCXB1CM-222Y	C.CAPACITOR
	C039	QCC31EM-153ZV	C.CAPACITOR
	C040	QCBB1HK-331Y	C.CAPACITOR
	C041	QETC1HM-335ZN	E.CAPACITOR
	C042	QETC1HM-105ZN	E.CAPACITOR
	C043	QFS41HJ-102	P.S.CAPACITOR
	C044	QCC31EM-123ZV	C.CAPACITOR
	C045	QCC31EM-123ZV	C.CAPACITOR
	C046	QETC1HM-224ZN	E CAPACITOR
	C047	QETC1HM-335ZN	E.CAPACITOR
	C048	QETC1HM-335ZN	E.CAPACITOR
	C049	QETA0JM-477M	E CAPACITOR
	C050	VCE0004-002	SUPER CAP.
	C052	QCY41HK-222	C.CAPACITOR
	C053	QCBB1HK-151Y	C.CAPACITOR
	C054	QCBB1HK-471Y	C.CAPACITOR
	C055	QCBB1HK-151Y	C.CAPACITOR
	C056	QETC1HM-335ZN	E.CAPACITOR
	C057	QCC31EM-473ZV	C.CAPACITOR
	C058	QETC1HM-105ZN	E.CAPACITOR
	C060	QCSB1HK-6R8Y	C CAPACITOR
	C061	QCS11HJ-7R0	C.CAPACITOR
	D001	KV1330	VARI CAP
	D002	KV1330	VARI CAP
	D003	MA165	SI DIODE
	D004	HSS104TJ	SI DIODE
	D005	HSS104TJ	SI DIODE
	D006	KV1250	VARI CAP
	D007	KV1250	VARI CAP
	D008	MA700-TA	Z DIODE
	D009	HSS104TJ	SI DIODE
	D010	HSS104TJ	SI DIODE
	D012	HSS104TJ	SI DIODE
	D013	HZ4C2	Z DIODE
	IC01	AN7205	IC
	IC02	LA1810-K	IC
	L001	V03105-029	OSC COIL
	L002	VQF1B11-003	RF COIL
	L003	VQB010A-501	BAR ANTENA
	L004	VQB010A-501	BAR ANTENA

⚠	REF. NO	PARTS NO.	PARTS NAME
	L005	VQM7U02-401	OSC COIL(MW)
	L006	VQS7U01-304	OSC COIL
	L007	VQP0012-8R2	INDUCTOR
	L008	V03047-21	ANTENNA COIL
	L009	V03047-21	ANTENNA COIL
	Q001	2SC1923(O)E2	TRANSISTOR
	Q002	2SC2839(E)AC	TR ﾃｰﾋﾟﾝｸﾞ
	Q003	2SC2839(E)AC	TR ﾃｰﾋﾟﾝｸﾞ
	Q006	2SC3330(S,T)AC	TRANSISTOR
	Q007	2SC3330(S,T)AC	TRANSISTOR
	Q008	2SA1317(S,T)AC	TRANSISTOR
	Q009	2SA1317(S,T)AC	TRANSISTOR
	Q010	2SC3330(S,T)AC	TRANSISTOR
	Q011	2SA1317(S,T)AC	TRANSISTOR
	Q012	2SC3330(S,T)AC	TRANSISTOR
	Q013	2SC3330(S,T)AC	TRANSISTOR
	Q014	2SC2839(E)AC	TR ﾃｰﾋﾟﾝｸﾞ
	Q015	2SA1317(S,T)AC	TRANSISTOR
	R001	QRD161J-104Y	CARBON RESISTOR
	R002	QRD161J-103Y	CARBON RESISTOR
	R003	QRD161J-100Y	CARBON RESISTOR
	R004	QRD161J-102Y	CARBON RESISTOR
	R005	QRD161J-823Y	CARBON RESISTOR
	R006	QRD161J-102Y	CARBON RESISTOR
	R008	QRD161J-820Y	CARBON RESISTOR
	R009	QRD161J-102Y	CARBON RESISTOR
	R010	QRD161J-104Y	CARBON RESISTOR
	R012	QRD161J-103Y	CARBON RESISTOR
	R013	QRD161J-152Y	CARBON RESISTOR
	R014	QRD161J-473Y	CARBON RESISTOR
	R015	QRD161J-104Y	CARBON RESISTOR
	R016	QRD161J-103Y	CARBON RESISTOR
	R018	QRD161J-104Y	CARBON RESISTOR
	R021	QRD161J-103Y	CARBON RESISTOR
	R022	QRD161J-103Y	CARBON RESISTOR
	R023	QRD161J-103Y	CARBON RESISTOR
	R024	QRD161J-182Y	CARBON RESISTOR
	R025	QRD161J-103Y	CARBON RESISTOR
	R026	QRD161J-332Y	CARBON RESISTOR
	R027	QRD161J-154Y	CARBON RESISTOR
	R028	QRD161J-223Y	CARBON RESISTOR
	R029	QRD161J-222Y	CARBON RESISTOR
	R030	QRD161J-103Y	CARBON RESISTOR
	R031	QRD161J-103Y	CARBON RESISTOR
	R032	QRD161J-103Y	CARBON RESISTOR
	R033	QRD161J-222Y	CARBON RESISTOR
	R035	QRD161J-103Y	CARBON RESISTOR
	R036	QRD161J-220Y	CARBON RESISTOR
	R038	QRD161J-331Y	CARBON RESISTOE
	R040	QRD161J-103Y	CARBON RESISTOR
	R041	QRD161J-564Y	CARBON RESISTOR
	R042	QRD161J-331Y	CARBON RESISTOE
	R043	QRD161J-101Y	CARBON RESISTOR
	R044	QRD161J-101Y	CARBON RESISTOR
	R045	QRD161J-101Y	CARBON RESISTOR
	R046	QRD161J-152Y	CARBON RESISTOR
	R047	QRD161J-104Y	CARBON RESISTOR
	R048	QRD161J-273Y	CARBON RESISTOR
	R049	QRD161J-103Y	CARBON RESISTOR
	R050	QRD161J-101	CARBON RESISTOR
	R34	QRD161J-222Y	CARBON RESISTOR
	TC02	QAT3001-053	T.CAPACITOR
	TC03	QAT3001-053	T.CAPACITOR
	TC04	QAT3720-100M	T CAPACITOR
	TC05	QAT3720-600M	T CAPACITOR
	T001	VQT7F12-109	IFT
	T002	VQT7A21-103	IFT
	VR01	QVZ3512-103	V.RESISTOR

■ Din Board (G/V Version)

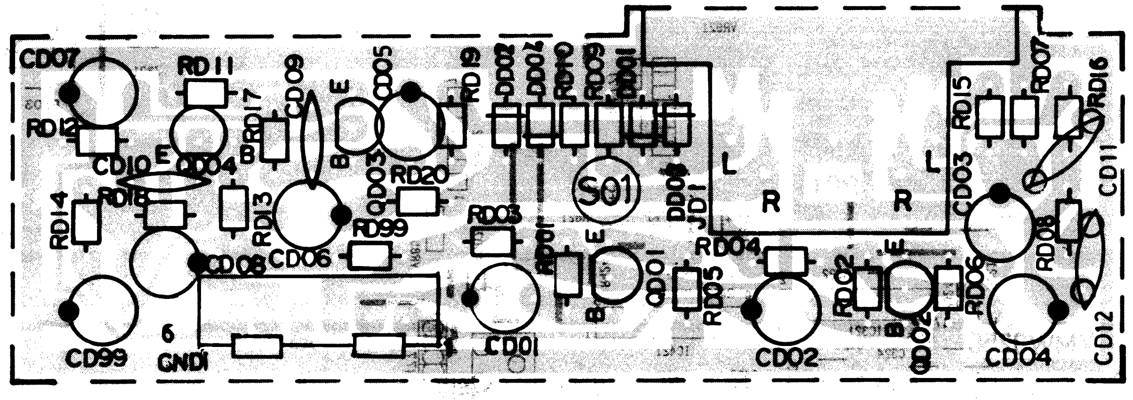


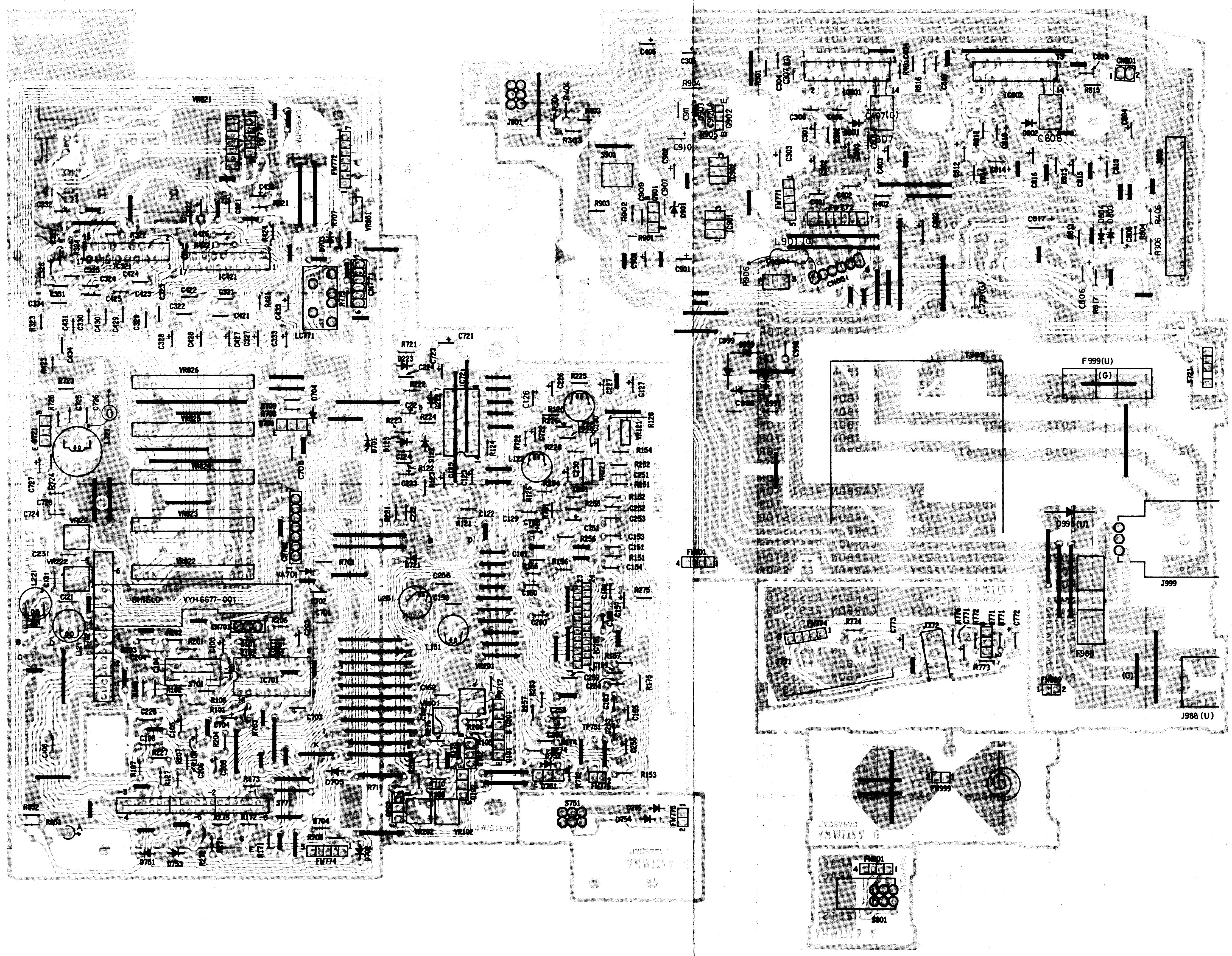
Fig. 8-4

⚠	REF. NO	PARTS NO.	PARTS NAME
	CD02	QETB1HM-105	E.CAPACITOR
	CD04	QETB1HM-105	E.CAPACITOR
	CD06	QETB1HM-105	E.CAPACITOR
	CD08	QETB1HM-105	E.CAPACITOR
	CD10	QCY41HK-471	C.CAPACITOR
	DD02	MA165	SI DIODE
	DD04	MA165	SI DIODE
	QD02	2SC2785(E,F)	TRANSISTOR
	QD04	2SC2785(E,F)	TRANSISTOR
	RD02	QRD144J-824S	C RESISTOR
	RD04	QRD144J-332S	C RESISTOR
	RD06	QRD144J-151S	CARBON RESISTOR
	RD08	QRD161J-224	CARBON RESISTOR
	RD10	QRD144J-103S	C.RESISTOR
	RD12	QRD144J-471S	C RESISTOR
	RD14	QRD144J-183S	C RESISTOR
	RD16	QRD161J-103	CARBON RESISTOR
	RD18	QRD144J-105S	C.RESISTOR
	RD20	QRD144J-563S	CARBON RESISTOR
	CD01	QETB1HM-105	E.CAPACITOR
	CD03	QETB1HM-105	E.CAPACITOR
	CD05	QETB1HM-105	E.CAPACITOR
	CD07	QETB1HM-105	E.CAPACITOR
	CD09	QCY41HK-471	C.CAPACITOR
	CD11	QCY41HK-102	C.CAPACITOR

⚠	REF. NO	PARTS NO.	PARTS NAME
	CD12	QCY41HK-102	C.CAPACITOR
	CD99	QETB1AM-476	E.CAPACITOR
	CND1	QMV5011-006	CONNECTOR
	DD01	MA165	SI DIODE
	DD03	MA165	SI DIODE
	JD01	QMC9014-008	DIN SOCKET
	QD01	2SC2785(E,F)	TRANSISTOR
	QD03	2SC2785(E,F)	TRANSISTOR
	RD01	QRD144J-824S	C RESISTOR
	RD03	QRD144J-332S	C RESISTOR
	RD05	QRD144J-151S	CARBON RESISTOR
	RD07	QRD161J-224	CARBON RESISTOR
	RD09	QRD144J-103S	C.RESISTOR
	RD11	QRD144J-471S	C RESISTOR
	RD13	QRD144J-183S	C RESISTOR
	RD15	QRD161J-103	CARBON RESISTOR
	RD17	QRD144J-105S	C.RESISTOR
	RD19	QRD144J-563S	CARBON RESISTOR
	RD99	QRD144J-101S	C.RESISTOR

■ Main Board (A/G/U/V Version)

A = PC-V77A
U = PC-V77U
G = PC-V77G/V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VR822
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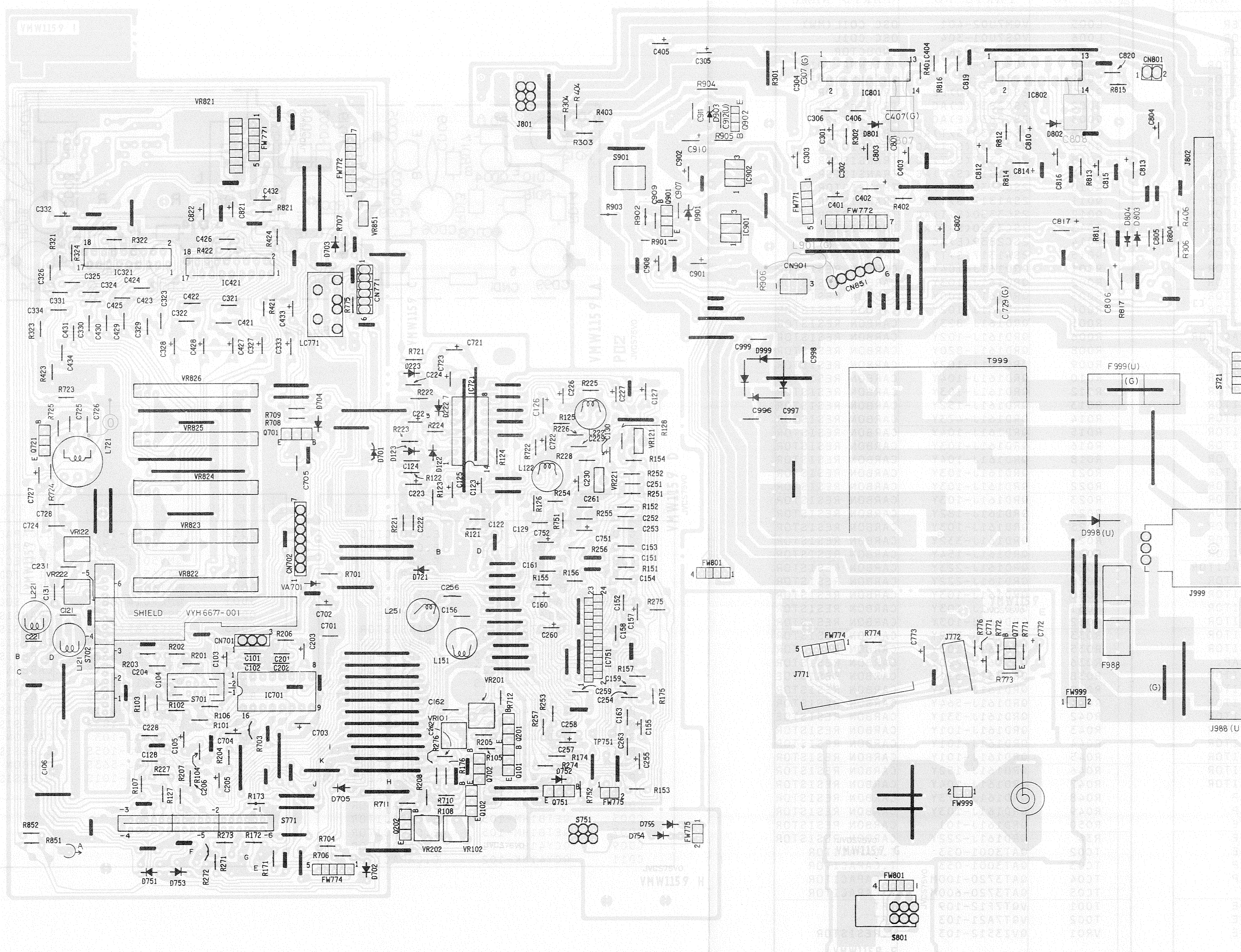
LC771
C721
VR231
VR101
VR102
VR202
S751
S901
J801
C405
R904
C910
IC801
IC802
CN801
C806
F999(U)
(G)
D999(U)
J999
F988
(G)
J988(U)
FW999
S801
FW801
FW771
FW772
FW774
FW775
D751
D753
D754
D755
JVC575V0
YMW1159 G
YMW1159 F
L901(G)
CN651
F999

Fig. 8-5

■ Main Board (A/G/U/V Version)

A = PC-V77A
U = PC-V77U
G = PC-V77G/V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R821
C822
C821
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R851
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CN771
R775
LC771
C332
R321
R324
R322
IC321
C326
C325
C324
C424
IC421
R422
C426
R424
C331
C425
C423
C422
C321
C334
R323
C431
C330
C430
C429
C329
C322
C421
R421
C433
C328
C428
C427
C327
C333
C434
R423
VR826
R723
R725
C725
C726
Q721
L721
R724
C727
C728
C724
VR825
VR824
VR823
VR822
R709
R708
Q701
D704
C705
CN702
VR122
C231
VR222
L221
C131
C121
C221
L121
S702
SHIELD
VYH6677-001
VA701
R701
D721
C702
C701
CN701
R206
C203
R202
R201
R203
C204
C103
C101
C102
C201
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S701
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R103
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R101
C228
C128
C105
C704
R204
R703
C703
R227
R104
C206
C205
R107
R127
R173
S771
R852
R851
R273
R172
D751
D753
R272
R271
R171
R704
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R228
R252
C230
VR221
C251
R251
R126
R254
C261
R152
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C151
R151
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R155
R156
C160
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L151
C152
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C158
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R157
C159
C259
C254
R175
R275
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R712
R253
R257
C258
C257
Q201
Q101
R205
R105
R176
R276
Q702
R274
C752
R174
C263
C163
C255
C155
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Q751
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FW775
R153
R208
R710
R108
R711
Q102
Q202
VR202
VR102
D705
S751
D755
D754
J801
R304
R404
R403
R303
C405
C305
R904
C911
D903
C912(U)
Q902
R905
C910
S901
C902
C907
Q901
D901
C909
R902
R903
R901
C908
C901
IC902
IC901
L901(G)
CN901
R906
CN851
R301
C304
C307(G)
IC801
R401
C404
R816
C819
IC802
C820
CN801
R815
C306
C406
C407(G)
C301
R302
D801
C803
C801
C403
C303
C302
C401
C402
R402
FW772
FW771
C802
C812
R812
C814
C810
D802
C808
C804
C816
R813
C815
C813
J802
C817
R811
D804
D803
C805
R804
R406
R306
C806
R817
C729(G)
C999
D999
C998
C996
C997
T999
F999(U)
(G)
S721
D998(U)
J999
F988
FW801
FW774
R774
J771
C773
J772
R776
C771
R772
Q771
R771
C772
R773
FW999
J988(U)
(G)
FW999
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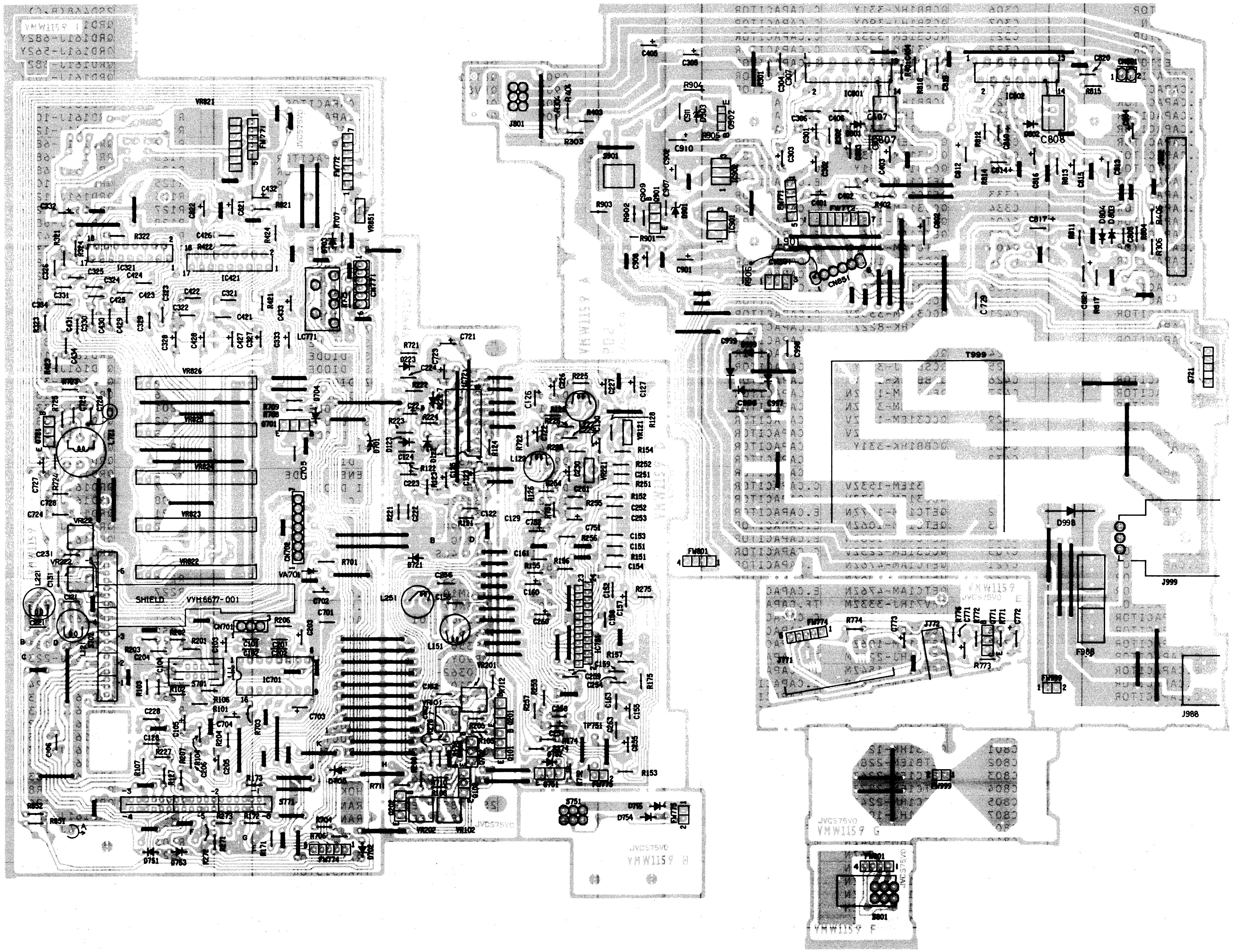
S801
VMW1159
A
B
C
D
E
F
G
H
J
K

Fig. 8-5

■ Amplifier Board (B/E Version)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L251
L151
IC801
IC802
J801
S901
T901
CN851
T999
D998
J999
F998
J988
FW801
FW774
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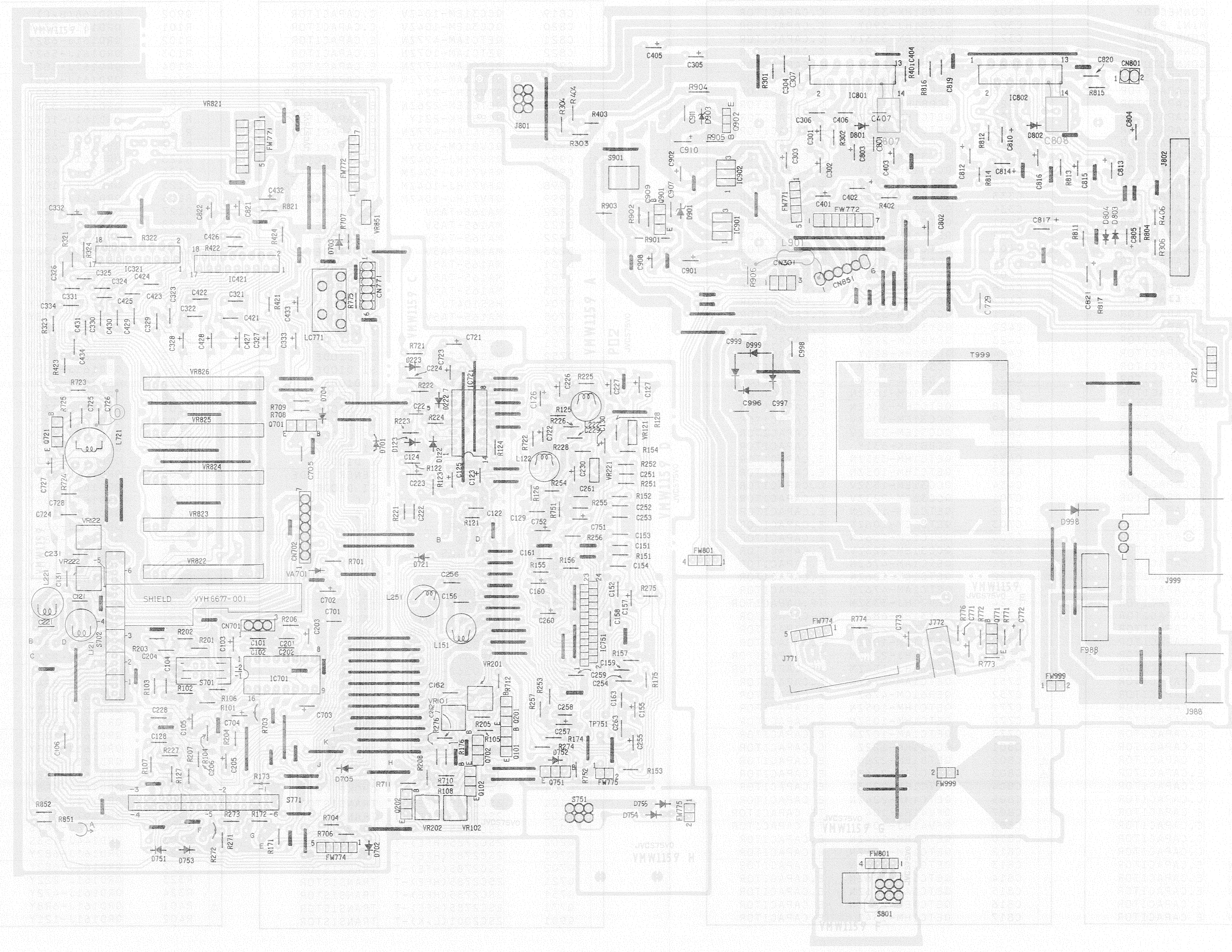
VMW1159 G
VMW1159 F
VMW1159 H
JVC575VO

Fig. 8-6

■ Amplifier Board (B/E Version)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CN701
IC701
S701
S771
FW774
CN702
VA701
IC721
IC751
IC151
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L721
VR201
VR202
VR102
VR101
S751
FW775
J801
S901
IC902
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IC801
IC802
CN801
J802
CN301
CN851
T999
D999
D998
J999
F988
J988
J771
J772
FW801
FW999
S801
TP751
VMW1159 A
VMW1159 C
VMW1159 D
VMW1159 E
VMW1159 F
VMW1159 G
VMW1159 H

Fig. 8-6

Amplifier Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	CN701	QMV5011-003	CONNECTOR
	CN702	VMZ0028-007	MINI PIN
	CN801	QMV5011-002	CONNECTOR
	CN851	QMV5011-006	CONNECTOR
	CN901	VMC0106-003	CONNECTOR
	C101	QCBB1HK-561Y	C.CAPACITOR
	C102	QCBB1HK-561Y	C.CAPACITOR
	C103	QETC1AM-107ZN	E.CAPACITOR
	C104	QCC31EM-123ZV	C.CAPACITOR
	C105	QETC1HM-335ZN	E.CAPACITOR
	C106	QCC31EM-333ZV	C.CAPACITOR
	C121	QCBB1HK-561Y	C.CAPACITOR
	C122	QCBB1HK-102Y	C.CAPACITOR
	C123	QER61EM-335ZM	E.CAPACITOR
	C124	QCC31EM-104ZV	C.CAPACITOR
	C125	QER61EM-335ZM	E.CAPACITOR
	C126	QETB1AM-476N	E CAPACITOR
	C127	QETC1HM-105ZN	E.CAPACITOR
	C128	QCC31EM-123ZV	C.CAPACITOR
	C129	QCY31HK-822Z	C.CAPACITOR
	C130	QETC1HM-104ZN	E.CAPACITOR
	C131	QCBB1HK-331Y	C.CAPACITOR
	C151	QCXB1CM-472Y	C.CAPACITOR
	C152	QCVB1CM-103Y	C.CAPACITOR
	C153	QCC31EM-104ZV	C.CAPACITOR
	C154	QCC31EM-333ZV	C.CAPACITOR
	C155	QETC1HM-105ZN	E.CAPACITOR
	C156	QCS31HJ-301Z	C CAPACITOR
	C157	QETC1HM-105ZN	E.CAPACITOR
	C158	QCBB1HK-102Y	C.CAPACITOR
	C159	QCBB1HK-102Y	C.CAPACITOR
	C160	QER61HM-105ZM	E CAPACITOR
	C161	QCC31EM-333ZV	C.CAPACITOR
	C162	QCBB1HK-221Y	C.CAPACITOR
	C163	QCBB1HK-331Y	C.CAPACITOR
	C201	QCBB1HK-561Y	C.CAPACITOR
	C202	QCBB1HK-561Y	C.CAPACITOR
	C203	QETC1AM-107ZN	E.CAPACITOR
	C204	QCC31EM-123ZV	C.CAPACITOR
	C205	QETC1HM-335ZN	E.CAPACITOR
	C206	QCC31EM-333ZV	C.CAPACITOR
	C221	QCBB1HK-561Y	C.CAPACITOR
	C222	QCBB1HK-102Y	C.CAPACITOR
	C223	QETC1HM-335ZN	E.CAPACITOR
	C224	QCC31EM-104ZV	C.CAPACITOR
	C225	QETC1HM-335ZN	E.CAPACITOR
	C226	QETC1AM-476ZN	E.CAPACITOR
	C227	QETC1HM-105ZN	E.CAPACITOR
	C228	QCC31EM-123ZV	C.CAPACITOR
	C229	QCY31HK-822Z	C.CAPACITOR
	C230	QETC1HM-104ZN	E.CAPACITOR
	C231	QCBB1HK-331Y	C.CAPACITOR
	C251	QCXB1CM-472Y	C.CAPACITOR
	C252	QCVB1CM-103Y	C.CAPACITOR
	C253	QCC31EM-104ZV	C.CAPACITOR
	C254	QCC31EM-333ZV	C.CAPACITOR
	C255	QETC1HM-105ZN	E.CAPACITOR
	C256	QCS31HJ-301Z	C CAPACITOR
	C257	QETC1HM-105ZN	E.CAPACITOR
	C258	QCBB1HK-102Y	C.CAPACITOR
	C259	QCBB1HK-102Y	C.CAPACITOR
	C260	QER61HM-105ZM	E CAPACITOR
	C261	QCC31EM-333ZV	C.CAPACITOR
	C262	QCBB1HK-221Y	C.CAPACITOR
	C263	QCBB1HK-331Y	C.CAPACITOR
	C301	QETC1HM-105ZN	E.CAPACITOR
	C302	QETC1AM-476ZN	E.CAPACITOR
	C303	QETC1AM-476ZN	E.CAPACITOR
	C304	QCC31EM-104ZV	C.CAPACITOR
	C305	QETC1AM-477ZN	E CAPACITOR
	C306	QCBB1HK-331Y	C.CAPACITOR
	C307	QCSB1HJ-390Y	C.CAPACITOR
	C321	QCC31EM-333ZV	C.CAPACITOR
	C322	QCY31HK-822Z	C.CAPACITOR
	C323	QCXB1CM-272Y	C.CAPACITOR
	C324	QCBB1HK-821Y	C.CAPACITOR
	C325	QCSB1HJ-390Y	C.CAPACITOR
	C326	QCBB1HK-102Y	C.CAPACITOR
	C327	QETC1HM-105ZN	E.CAPACITOR
	C328	QETC1HM-334ZN	E.CAPACITOR
	C329	QCC31EM-104ZV	C.CAPACITOR
	C330	QCC31EM-333ZV	C.CAPACITOR
	C331	QCBB1HK-331Y	C.CAPACITOR
	C332	QETC1HM-335ZN	E.CAPACITOR
	C333	QETC1HM-105ZN	E.CAPACITOR
	C334	QCC31EM-153ZV	C.CAPACITOR
	C401	QETC1HM-105ZN	E.CAPACITOR
	C402	QETC1AM-476ZN	E.CAPACITOR
	C403	QETC1AM-476ZN	E.CAPACITOR
	C404	QCC31EM-104ZV	C.CAPACITOR
	C405	QETC1AM-477ZN	E CAPACITOR
	C406	QCBB1HK-331Y	C.CAPACITOR
	C407	QCSB1HJ-390Y	C.CAPACITOR
	C421	QCC31EM-333ZV	C.CAPACITOR
	C422	QCY31HK-822Z	C.CAPACITOR
	C423	QCXB1CM-272Y	C.CAPACITOR
	C424	QCBB1HK-821Y	C.CAPACITOR
	C425	QCSB1HJ-390Y	C.CAPACITOR
	C426	QCBB1HK-102Y	C.CAPACITOR
	C427	QETC1HM-105ZN	E.CAPACITOR
	C428	QETC1HM-334ZN	E.CAPACITOR
	C429	QCC31EM-104ZV	C.CAPACITOR
	C430	QCC31EM-333ZV	C.CAPACITOR
	C431	QCBB1HK-331Y	C.CAPACITOR
	C432	QETC1HM-335ZN	E.CAPACITOR
	C433	QETC1HM-105ZN	E.CAPACITOR
	C434	QCC31EM-153ZV	C.CAPACITOR
	C701	QCC31EM-223ZV	C.CAPACITOR
	C702	QETC1AM-107ZN	E.CAPACITOR
	C703	QETC1CM-106ZN	E.CAPACITOR
	C704	QETC1CM-106ZN	E.CAPACITOR
	C705	QCC31EM-223ZV	C.CAPACITOR
	C721	QETC1AM-476ZN	E.CAPACITOR
	C722	QETC1CM-106ZN	E.CAPACITOR
	C723	QETC1AM-476ZN	E.CAPACITOR
	C724	QFV71HJ-333ZM	TF.CAPACITOR
	C725	QCY31HK-682Z	C.CAPACITOR
	C726	QCC31EM-223ZV	C.CAPACITOR
	C727	QETC1EM-106ZN	E.CAPACITOR
	C728	QFV71HJ-224ZM	TF.CAPACITOR
	C729	QFV71HJ-154ZM	TF.CAPACITOR
	C751	QETC1AM-476ZN	E.CAPACITOR
	C752	QER61CM-476Z	E CAPACITOR
	C771	QETC1HM-105ZN	E.CAPACITOR
	C772	QETC1HM-105ZN	E.CAPACITOR
	C773	QETC1AM-107ZN	E.CAPACITOR
	C801	QCY31HK-122Z	C CAPACITOR
⚠	C802	QETB1EM-228N	E CAPACITOR
⚠	C803	QETC1EM-226ZN	E CAPACITOR
	C804	QETC1EM-227ZN	E CAPACITOR
	C805	QETC1HM-224ZN	E CAPACITOR
	C807	QFV41HJ-104	TF CAPACITOR
	C808	QFV41HJ-104	TF CAPACITOR
	C810	QETC1HM-104ZN	E.CAPACITOR
	C812	QETC1AM-476ZN	E.CAPACITOR
	C813	QETC1AM-476ZN	E.CAPACITOR
	C814	QETC1AM-476ZN	E.CAPACITOR
	C815	QETC1AM-476ZN	E.CAPACITOR
	C816	QETC1EM-227ZN	E CAPACITOR
	C817	QETC1HM-154Z	E CAPACITOR
	C819	QCC31EM-104ZV	C.CAPACITOR
	C820	QCC31EM-104ZV	C.CAPACITOR
	C821	QETC1AM-477ZN	E CAPACITOR
	C822	QETC1AM-107ZN	E.CAPACITOR
	C901	QETC1AM-477ZN	E CAPACITOR
	C902	QETC1AM-477ZN	E CAPACITOR
	C907	QFV81HJ-224	TF CAPACITOR
	C908	QETC1EM-226ZN	E CAPACITOR
	C909	QCBB1HK-221Y	C.CAPACITOR
	C910	QETC1AM-477ZN	E CAPACITOR
	C911	QCVB1CM-103Y	C.CAPACITOR
⚠	C996	QFV71HJ-104ZM	TF.CAPACITOR
⚠	C997	QFV71HJ-104ZM	TF.CAPACITOR
⚠	C998	QFV71HJ-104ZM	TF.CAPACITOR
⚠	C999	QFV71HJ-104ZM	TF.CAPACITOR
	D122	MA165-TA5V	SI DIODE
	D123	MA165-TA5V	SI DIODE
	D222	MA165-TA5V	SI DIODE
	D223	MA165-TA5V	SI DIODE
	D701	MA165-TA5V	SI DIODE
	D702	MA165-TA5V	SI DIODE
	D703	MA165-TA5V	SI DIODE
	D704	HSS104TJ	SI DIODE
	D705	MA165-TA5V	SI DIODE
	D721	MA700-TA	Z DIODE
	D751	HSS104TJ	SI DIODE
	D752	HSS104TJ	SI DIODE
	D753	HSS104TJ	SI DIODE
	D754	MA700-TA	Z DIODE
	D755	MA700-TA	Z DIODE
	D801	1SR35-100AT-93	SI DIODE
	D802	1SR35-100AT-93	SI DIODE
	D803	MA165-TA5V	SI DIODE
	D804	MA165-TA5V	SI DIODE
	D901	HZ9A3	Z DIODE
	D903	HZ7A1	ZENER DIODE
⚠	D999	S4VB10-4001	SI DIODE
	IC321	BA3812L	I.C
	IC421	BA3812L	I.C
	IC701	TA7739P	IC
	IC721	LA3220	IC
	IC751	BA1104LS	IC
⚠	IC801	UPC1335V	IC
⚠	IC802	UPC1335V	IC
⚠	IC901	AN78M10	I.C
⚠	IC902	AN78N07	I.C
	J771	VMJ3007-001	JACK
	J772	QMS3501-016B	JACK
	J801	QMS3507-001H	JACK
	J802	EMB90YV-401A	SPK.TERMINAL
	J999	QMC0362-002BS	AC SOCKET
	LC771	EQF0101-002	FILTER
	L121	VQP0001-103S	INDUCTOR
	L122	VQP0001-562S	INDUCTOR
	L151	VQP9001-004	INDUCTOR
	L221	VQP0001-103S	INDUCTOR
	L222	VQP0001-562S	INDUCTOR
	L251	VQP0001-183S	INDUCTOR
	L721	VQH1009-026	OSC COIL
	L901	T41572-001	CHOKE COIL
	Q101	2SC2785(HFE)-T	TRANSISTOR
	Q102	2SC2785(HFE)-T	TRANSISTOR
	Q201	2SC2785(HFE)-T	TRANSISTOR
	Q202	2SC2785(HFE)-T	TRANSISTOR
	Q701	2SC2785(HFE)-T	TRANSISTOR
	Q702	2SC2785(HFE)-T	TRANSISTOR
	Q721	2SC2785(HFE)-T	TRANSISTOR
	Q751	2SC2785(HFE)-T	TRANSISTOR
	Q771	2SC2785(HFE)-T	TRANSISTOR
	Q901	2SC2001(L,K)-T	TRANSISTOR
	Q902	2SD468(B,C)	TRANSISTOR
	R101	QRD161J-334Y	CARBON RESISTOR
	R102	QRD161J-682Y	CARBON RESISTOR
	R103	QRD161J-562Y	CARBON RESISTOR
	R104	QRD161J-682Y	CARBON RESISTOR
	R105	QRD161J-103Y	CARBON RESISTOR
	R106	QRD161J-820Y	CARBON RESISTOR
	R107	QRD161J-332Y	CARBON RESISTOR
	R108	QRD161J-103Y	CARBON RESISTOR
	R121	QRD161J-123Y	CARBON RESISTOR
	R122	QRD161J-681Y	CARBON RESISTOR
	R123	QRD161J-683Y	CARBON RESISTOR
	R124	QRD161J-683Y	CARBON RESISTOR
	R125	QRD161J-102Y	CARBON RESISTOR
	R126	QRD161J-121Y	CARBON RESISTOR
	R127	QRD161J-221Y	CARBON RESISTOR
	R128	QRD161J-682Y	CARBON RESISTOR
	R151	QRD161J-473Y	CARBON RESISTOR
	R152	QRD161J-332Y	CARBON RESISTOR
	R153	QRD161J-183Y	CARBON RESISTOR
	R154	QRD161J-223Y	CARBON RESISTOR
	R155	QRD161J-434Y	CARBON RESISTOR
	R156	QRD161J-824Y	CARBON RESISTOR
	R157	QRD161J-223Y	CARBON RESISTOR
	R171	QRD161J-683Y	CARBON RESISTOR
	R172	QRD161J-822Y	CARBON RESISTOR
	R173	QRD161J-103Y	CARBON RESISTOR
	R174	QRD161J-103Y	CARBON RESISTOR
	R175	QRD161J-333Y	CARBON RESISTOR
	R176	QRD161J-183Y	CARBON RESISTOR
	R201	QRD161J-334Y	CARBON RESISTOR
	R202	QRD161J-682Y	CARBON RESISTOR
	R203	QRD161J-562Y	CARBON RESISTOR
	R204	QRD161J-682Y	CARBON RESISTOR
	R205	QRD161J-103Y	CARBON RESISTOR
	R206	QRD161J-820Y	CARBON RESISTOR
	R207	QRD161J-332Y	CARBON RESISTOR
	R208	QRD161J-103Y	CARBON RESISTOR
	R221	QRD161J-123Y	CARBON RESISTOR
	R222	QRD161J-681Y	CARBON RESISTOR
	R223	QRD161J-683Y	CARBON RESISTOR
	R224	QRD161J-683Y	CARBON RESISTOR
	R225	QRD161J-102Y	CARBON RESISTOR
	R226	QRD161J-121Y	CARBON RESISTOR
	R227	QRD161J-221Y	CARBON RESISTOR
	R228	QRD161J-682Y	CARBON RESISTOR
	R251	QRD161J-473Y	CARBON RESISTOR
	R252	QRD161J-332Y	CARBON RESISTOR
	R253	QRD161J-183Y	CARBON RESISTOR
	R254	QRD161J-223Y	CARBON RESISTOR
	R255	QRD161J-434Y	CARBON RESISTOR
	R256	QRD161J-824Y	CARBON RESISTOR
	R257	QRD161J-223Y	CARBON RESISTOR
	R271	QRD161J-683Y	CARBON RESISTOR
	R272	QRD161J-822Y	CARBON RESISTOR
	R273	QRD161J-103Y	CARBON RESISTOR
	R274	QRD161J-103Y	CARBON RESISTOR
	R275	QRD161J-333Y	CARBON RESISTOR
	R276	QRD161J-183Y	CARBON RESISTOR
⚠	R301	QRD161J-6R8Y	C RESISTOR
	R302	QRD161J-121Y	CARBON RESISTOR
	R303	QRD161J-222Y	CARBON RESISTOR
	R304	QRD144J-181S	C RESISTOR
	R306	QRD144J-153S	C RESISTOR
	R321	QRD161J-682Y	CARBON RESISTOR
	R322	QRD161J-682Y	CARBON RESISTOR
	R323	QRD161J-222Y	CARBON RESISTOR
	R324	QRD161J-472Y	CARBON RESISTOR
⚠	R401	QRD161J-6R8Y	C RESISTOR
	R402	QRD161J-121Y	CARBON RESISTOR

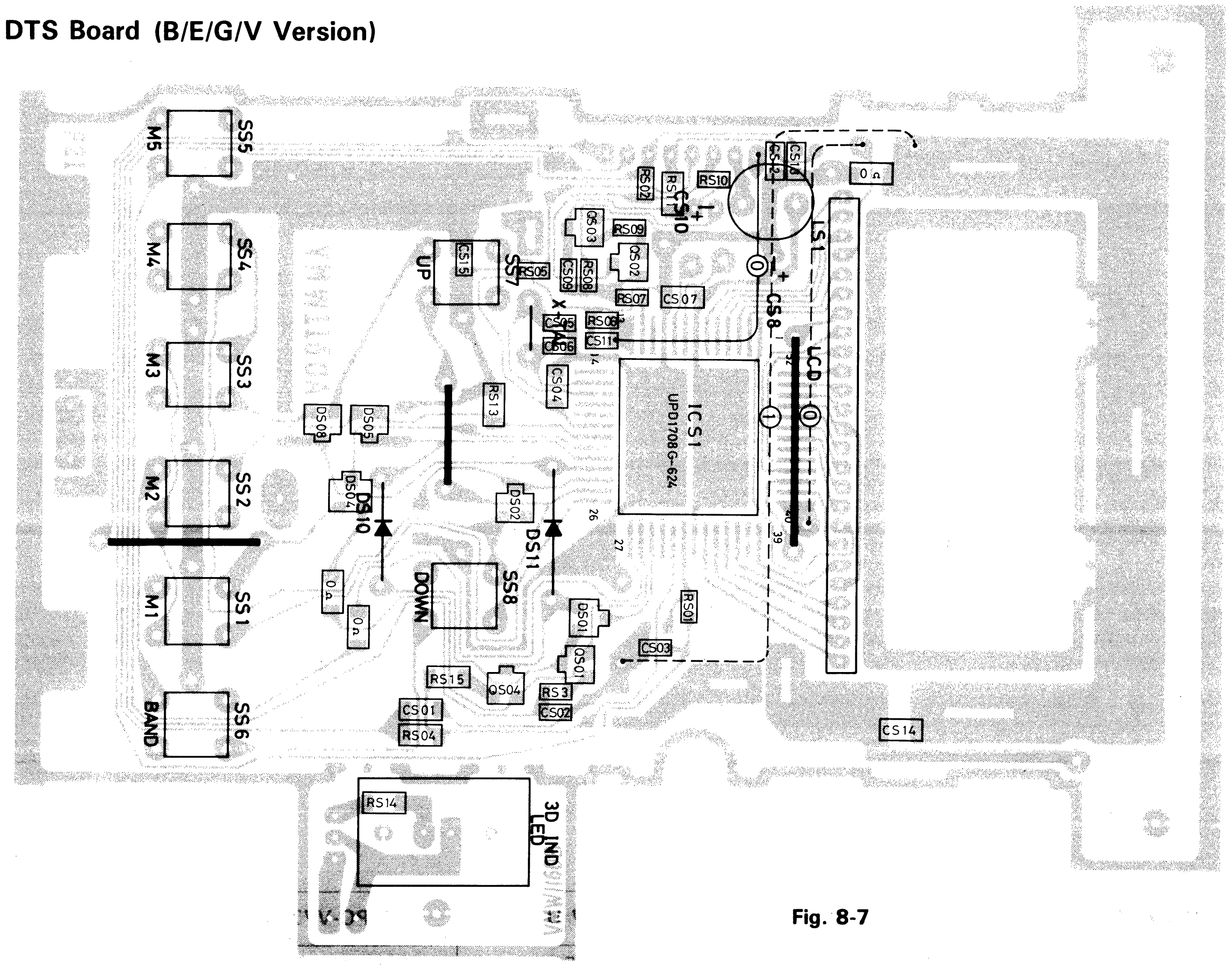
⚠	REF. NO	PARTS NO.	PARTS NAME
	R403	QRD161J-222Y	CARBON RESISTOR
	R404	QRD144J-181S	C RESISTOR
	R406	QRD144J-153S	C RESISTOR
	R421	QRD161J-682Y	CARBON RESISTOR
	R422	QRD161J-682Y	CARBON RESISTOR
	R423	QRD161J-222Y	CARBON RESISTOR
	R424	QRD161J-472Y	CARBON RESISTOR
	R701	QRD161J-102Y	CARBON RESISTOR
	R703	QRD161J-682Y	CARBON RESISTOR
	R704	QRD161J-103Y	CARBON RESISTOR
	R706	QRD161J-472Y	CARBON RESISTOR
	R707	QRD161J-472Y	CARBON RESISTOR
	R708	QRD161J-103Y	CARBON RESISTOR
	R709	QRD161J-103Y	CARBON RESISTOR
	R710	QRD161J-103Y	CARBON RESISTOR
	R711	QRD161J-392Y	CARBON RESISTOR
	R712	QRD161J-392Y	CARBON RESISTOR
	R721	QRD161J-101Y	CARBON RESISTOR
	R722	QRD161J-475YT	C RESISTOR
	R723	QRD144J-470S	CARBON RESISTOR
	R724	QRD144J-3R3S	C RESISTOR
	R725	QRD161J-333Y	CARBON RESISTOR
	R751	QRD161J-101Y	CARBON RESISTOR
	R752	QRD161J-103Y	CARBON RESISTOR
	R771	QRD161J-334Y	CARBON RESISTOR
	R772	QRD161J-332Y	CARBON RESISTOR
	R773	QRD144J-120S	C RESISTOR
	R774	QRD161J-102Y	CARBON RESISTOR
	R775	QRD161J-473Y	CARBON RESISTOR
	R776	QRD161J-103Y	CARBON RESISTOR
	R804	QRD161J-103Y	CARBON RESISTOR
	R811	QRD161J-223Y	CARBON RESISTOR
	R812	QRD161J-101Y	CARBON RESISTOR
	R813	QRD161J-101Y	CARBON RESISTOR
	R814	QRD161J-123Y	CARBON RESISTOR
	R815	QRD161J-2R2Y	CARBON RESISTOR
	R816	QRD161J-2R2Y	CARBON RESISTOR
	R817	QRD161J-103Y	CARBON RESISTOR
	R821	QRD161J-221Y	CARBON RESISTOR
	R851	QRD161J-392Y	CARBON RESISTOR
	R852	QRD161J-222Y	CARBON RESISTOR
	R901	QRZ0052-4R7	F.RESISTOR
	R902	QRD161J-102Y	CARBON RESISTOR
	R903	QRD161J-562Y	CARBON RESISTOR
	R904	QRZ0066-4R7	C RESISTOR
	R905	QRD161J-681Y	CARBON RESISTOR
	R906	QRZ0066-180	C RESISTOR
	S701	QSS1N22-V01	SLIDE SW
	S702	QSS1G62-V01	SLIDE SW
	S721	QSS1301-101	SLIDE SWITCH
	S751	QST3101-V08	PUSH SWITCH
	S771	QSS1N64-V01	SLIDE SW
	S801	QSTM101-V05	PUSH SW
⚠	S901	QST2101-V06	PUSH SWITCH
	VA701	KB262	VARISTOR
	VR101	QVPA601-103	V.RESISTOR
	VR102	QVPA601-103	V.RESISTOR
	VR121	QVPA603-103	V RESISTOR
	VR122	QVPA601-104	V RESISTOR
	VR201	QVPA601-103	V.RESISTOR
	VR202	QVPA601-103	V.RESISTOR
	VR221	QVPA603-103	V RESISTOR
	VR222	QVPA601-104	V RESISTOR
	VR821	QVDB26A-V01	V RESISTOR
	VR822	QVXB1JG-V15	V.RESISTOR
	VR823	QVXB1JG-V15	V.RESISTOR
	VR824	QVXB1JG-V15	V.RESISTOR
	VR825	QVXB1JG-V15	V.RESISTOR
	VR826	QVXB1JG-V15	V.RESISTOR
	VR851	QVPA603-202	V RESISTOR

⚠	REF. NO	PARTS NO.	PARTS NAME
	180	VYH3453-001	RADIATION******
	181	SBSB3010Z	SCREW
	182	SBSB3010Z	SCREW
	183	SBSB3010Z	SCREW
	186	VYH6677-001	SHIELD

The Comparison Table of Main Board Parts

Ref. No.	Parts Name	PC-V77 B	PC-V77 E	PC-V77 G	PC-V77 U	PC-V77 A
T999	Power Trans	VTP57P2-12FBS	VTP57P2-12F	VTP57P2-12F	VPT57P2-12F	VTP57P2-12F
F998	Fuse	QMF51E2-3R15BS	QMF51A2-3R15	QMF51A2-3R15	QMF51A2-3R15	QMF51A2-3R15
J999	AC Socket	QMC0362-002BS	QMC0362-002	QMC0362-002	QMC0362-002	QMC0362-006
J998	DC Jack	———	QMA1221-004	———	QMA1221-004	QMA1221-004
D998	Si. Diode	———	DSA3A1	———	DSA3A1	DSA3A1
C997,996 998,999	C. Capacitor	QFV71HJ-104ZM	QFV71HJ-104ZM	QFV71HJ-104ZM	QCF31HP-103Z	QCF31HP-103Z
C807,808	TF. Capacitor	QFV41HJ-104	QFV41HJ-104	———	QFV41HJ-104	QFV41HJ-104
C821	E. Capacitor	QETC1HM-154Z	QETC1HM-154Z			
R171,271	C. Resistor	QRD161J-683Y	QRD161J-683Y	QR161J-393Y	QRD161J-683Y	QRD161J-683Y
R172,272	〃	QRD161J-822Y	QRD161J-822Y	QRD161J-223Y	QRD161J-822Y	QRD161J-822Y
R174,274	〃	QRD161J-103Y	QRD161J-103Y	QRD161J-392Y	QRD161J-103Y	QRD161J-103Y
R175,275	〃	QRD161J-333Y	QRD161J-333Y	QRD161J-473Y	QRD161J-333Y	QRD161J-333Y
R173,273	〃	QRD161J-153Y	QRD161J-153Y	QRD161J-153Y	QRD161J-153Y	QRD161J-103Y
C728	TF. Capacitor	QFV71HJ-224ZM	QFV71HJ-224ZM	QZV71HJ-224ZM	QFV71HJ-394ZM	QFV71HJ-394ZM
C729	TF. Capacitor	QFV71HJ-154ZM	QFV71HJ-154ZM	QFV71HJ-154ZM	QFV71HJ-154ZM	———
———	Shield (for Motor)	VYTN418-004	VYTN418-004	VYTN418-004	———	———
———	〃	VYTN418-005	VYTN418-005	VYTN418-005	———	———
C307,407	C. Capacitor	QCSB1HJ-390Y	QCSB1HJ-390Y	QCSB1HJ-390Y	———	———
L901	Coil	T41572-001	T41572-001	T41572-001	———	———
C903	E. Capacitor	QETA1CM-227M	QETA1CM-227M	QETA1CM-227M	———	———
R321,421	C. Resistor	QRD161J-103Y	QRD161J-103Y	QRD161J-103Y	QRD161J-103Y	QRD161J-682Y
R322,422	〃	QRD161J-153Y	QRD161J-153Y	QRD161J-153Y	QRD161J-153Y	QRD161J-682Y
R323,423	〃	QRD161J-821Y	QRD161J-821Y	QRD161J-821Y	QRD161J-821Y	QRD161J-222Y
R	〃	———	———	———	———	QRD161J-472Y
R325,425	〃	QRD161J-223Y	QRD161J-223Y	QRD161J-223Y	———	QRD161J-223Y

■ DTS Board (B/E/G/V Version)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SS5
M4
SS4
M3
SS3
M2
SS2
M1
SS1
BAND
SS6
UP
CS15
SS7
DOWN
SS8
DS10
DS11
ICS1
UPD1708G-624
LCD
LS1
CS8
CS10
RS10
CS14
RS14
3D IND LED
DS01
DS02
DS03
DS04
DS05
DS08
RS01
RS02
RS03
RS04
RS05
RS06
RS07
RS08
RS09
RS11
RS13
RS15
CS01
CS02
CS03
CS04
CS05
CS06
CS07
CS11
QS01
QS02
QS03
QS04

Fig. 8-7

⚠	REF. NO	PARTS NO.	PARTS NAME
	CS01	QCY81HK-103Y	C.CAPACITOR
	CS02	NCB21EK-103AY	C CAPACITOR
	CS03	NCB21EK-103AY	C CAPACITOR
	CS04	QCY81HK-103Y	C.CAPACITOR
	CS05	NCT21CH-270AY	C CAPASITOR
	CS06	NCT21CH-220AY	C CAPACITOR
	CS07	QCF81EZ-224Y	C CAPACITOR
	CS08	QER40GM-476VM	E CAPACITOR
	CS09	NCB21HK-222AY	C CAPACITOR
	CS10	QER41HM-225VM	E.CAPACITOR
	CS11	NCB21EK-103AY	C CAPACITOR
	CS12	NCF21HZ-473AY	C CAPACITOR
	CS13	NCS21HJ-151AY	C CAPACITOR
	CS14	QCS81HK-151Y	C CAPACITOR
	CS15	QCY81HK-333Y	C CAPACITOR
	DS02	MC2838W	DIODE
	DS04	MC2838W	DIODE
	DS05	MC2838W	DIODE
	DS08	MC2838W	DIODE
	DS09	LR-1140VC	L.E.D.
	DS10	MA165	SI DIODE
	DS11	MA165	SI DIODE
	ICS1	UPD1708G-624	I C
	LS01	VQP0012-471	INDUCTOR
	QS01	2SA1179M.6TB	TRANSISTOR
	QS02	2SC2812L-6TB	TRANSISTOR
	QS03	2SC2812L-6TB	TRANSISTOR
	QS04	2SA1179M.6TB	TRANSISTOR
	RS01	NRSA02J-102NY	MG RESISTOR
	RS02	NRSA02J-152NY	MG RESISTOR
	RS03	NRSA02J-223NY	MG RESISTOR
	RS04	NRS181J-223NY	MG RESISTOR
	RS05	NRSA02J-223NY	MG RESISTOR
	RS06	NRSA02J-332NY	MG RESISTOR
	RS07	NRSA02J-472NY	MG RESISTOR
	RS08	NRSA02J-102NY	MG RESISTOR
	RS09	NRSA02J-471NY	MG RESISTOR
	RS10	NRSA02J-332NY	MG RESISTOR
	RS11	NRS181J-102NY	MG RESISTOR
	RS12	NRS181J-223NY	MG RESISTOR
	RS13	NRS181J-473NY	MG RESISTOR
	SS01	QSP0301-002M	TACT SWITCH
	SS02	QSP0301-002M	TACT SWITCH
	SS03	QSP0301-002M	TACT SWITCH
	SS04	QSP0301-002M	TACT SWITCH
	SS05	QSP0301-002M	TACT SWITCH
	SS06	QSP0301-002M	TACT SWITCH
	SS07	QSP0301-002M	TACT SWITCH
	SS08	QSP0301-002M	TACT SWITCH
		VGL1035-002	LCD
		VGZ0001-028	P. Lamp
		VYH6645-001	Shield
		VYH6646-001	Shield
		VYSH103-064	Spacer

■ DTS Board (A/U Version)

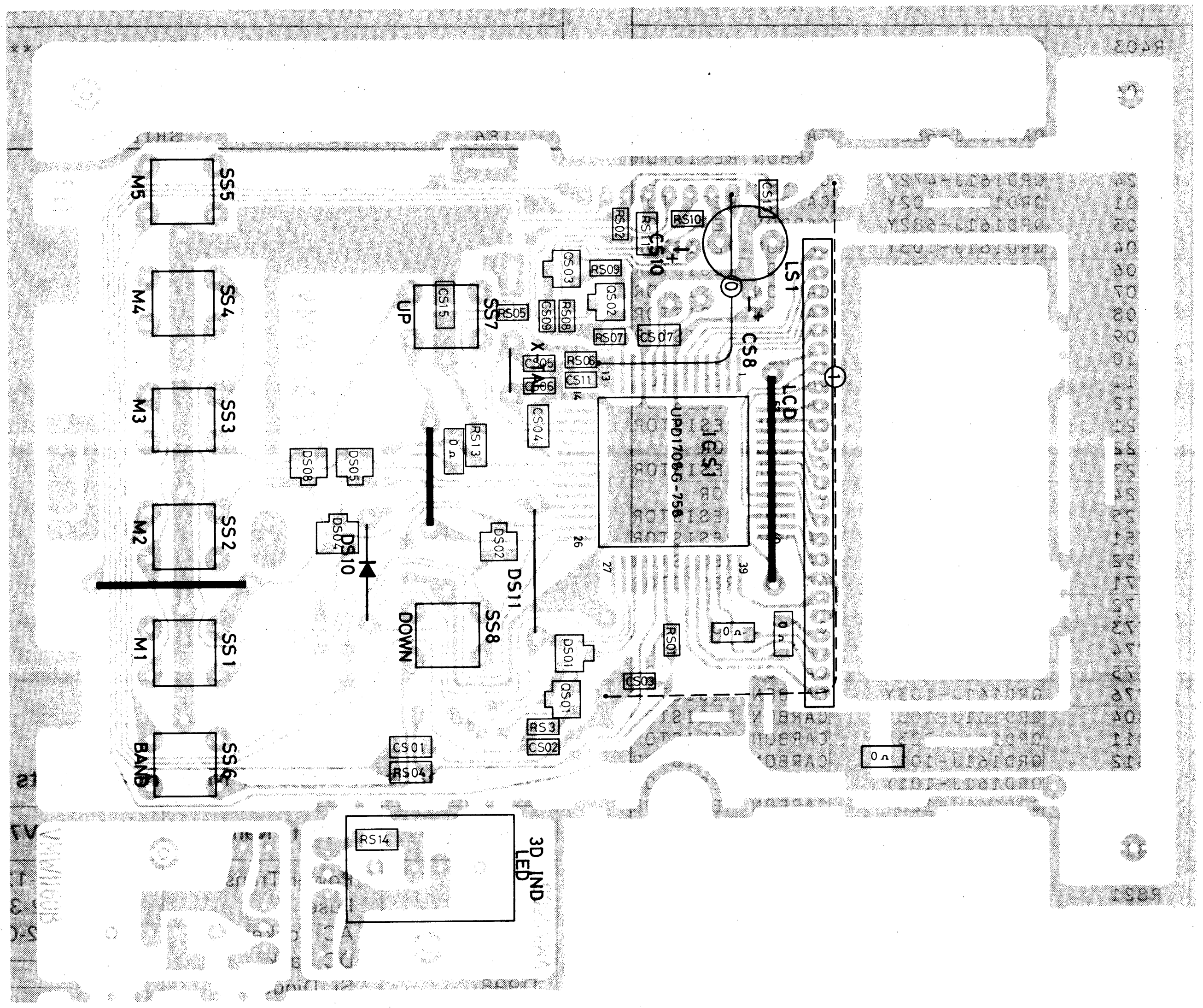
M5
SS5
M4
SS4
M3
SS3
M2
SS2
M1
SS1
BAND
SS6
UP
CS15
SS7
DOWN
SS8
DS10
DS11
ICS1
UPD1708G-756
LCD
LS1
CS8
CS10
RS10
RS14
3D IND LED
DS01
DS02
DS03
DS04
DS05
DS08
RS02
RS03
RS04
RS05
RS06
RS07
RS08
RS09
RS11
RS13
CS01
CS02
CS03
CS04
CS05
CS06
CS07
CS11
QS01
QS03

Fig. 8-8

⚠	REF. NO	PARTS NO.	PARTS NAME
	CS01	QCY81HK-103Y	C.CAPACITOR
	CS02	NCB21EK-103AY	C CAPACITOR
	CS03	NCB21EK-103AY	C CAPACITOR
	CS04	QCY81HK-103Y	C.CAPACITOR
	CS05	NCT21CH-270AY	C CAPASITOR
	CS06	NCT21CH-220AY	C CAPACITOR
	CS07	QCF81EZ-224Y	C CAPACITOR
	CS08	QER40GM-476VM	E CAPACITOR
	CS09	NCB21HK-222AY	C CAPACITOR
	CS10	QER41HM-225VM	E.CAPACITOR
	CS11	NCB21EK-103AY	C CAPACITOR
	CS12	NCF21HZ-473AY	C CAPACITOR
	CS13	NCS21HJ-151AY	C CAPACITOR
	CS14	QCS81HK-151Y	C CAPACITOR
	CS15	QCY81HK-333Y	C CAPACITOR
	DS02	MC2838W	DIODE
	DS04	MC2838W	DIODE
	DS05	MC2838W	DIODE
	DS08	MC2838W	DIODE
	DS10	MA165	SI DIODE
	DS11	MA165	SI DIODE
	ICS1	UPD1708G-624	I C
	LS01	VQP0012-471	INDUCTOR
	QS01	2SA1179M.6TB	TRANSISTOR
	QS02	2SC2812L-6TB	TRANSISTOR
	QS03	2SC2812L-6TB	TRANSISTOR
	QS04	2SA1179M.6TB	TRANSISTOR
	RS01	NRSA02J-102NY	MG RESISTOR
	RS02	NRSA02J-152NY	MG RESISTOR
	RS03	NRSA02J-223NY	MG RESISTOR
	RS04	NRS181J-223NY	MG RESISTOR
	RS05	NRSA02J-223NY	MG RESISTOR
	RS06	NRSA02J-332NY	MG RESISTOR
	RS07	NRSA02J-472NY	MG RESISTOR
	RS08	NRSA02J-102NY	MG RESISTOR
	RS09	NRSA02J-471NY	MG RESISTOR
	RS10	NRSA02J-332NY	MG RESISTOR
	RS11	NRS181J-102NY	MG RESISTOR
	RS12	NRS181J-223NY	MG RESISTOR
	RS13	NRS181J-473NY	MG RESISTOR
	SS01	QSP0301-002M	TACT SWITCH
	SS02	QSP0301-002M	TACT SWITCH
	SS03	QSP0301-002M	TACT SWITCH
	SS04	QSP0301-002M	TACT SWITCH
	SS05	QSP0301-002M	TACT SWITCH
	SS06	QSP0301-002M	TACT SWITCH
	SS07	QSP0301-002M	TACT SWITCH
	SS08	QSP0301-002M	TACT SWITCH

9 Exploded View of Speaker Box and Parts List

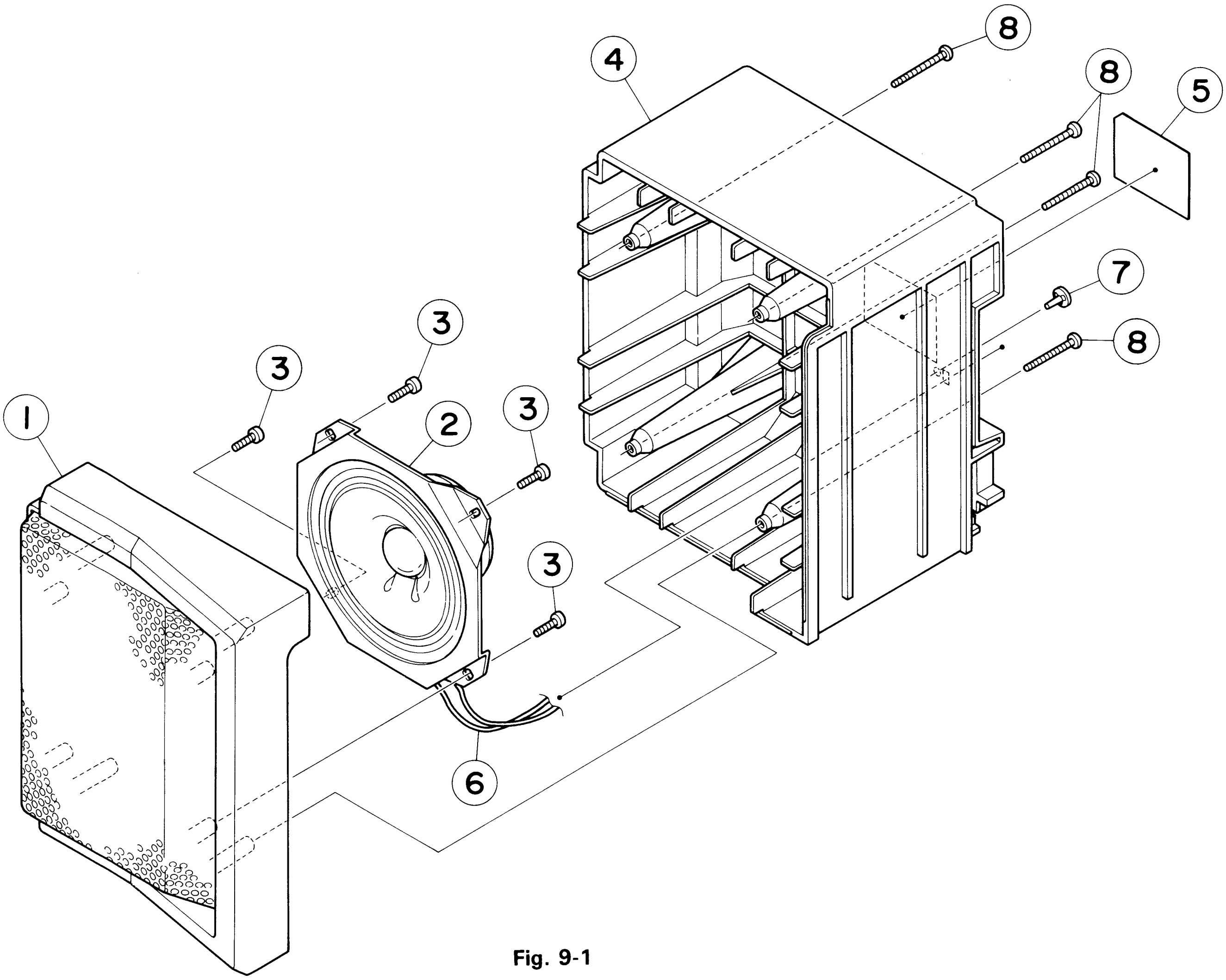

Fig. 9-1

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Speaker Box parts List

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1-1	VJC2306-00A	SP PANEL ASS'Y	LEFT	1
	1-2	VJC2307-00A	SP PANEL ASS'Y	RIGHT	1
	2	EAS10P268J	SPEAKER		1
	3	GBSF3010Z	SCREW	FOR SPEAKER	4
	4-1	VJC1636-001	REAR CABINET	LEFT	1
	4-2	VJC1644-001	REAR CABINET	RIGHT	1
	5	VYN7038-001B	NAME PLATE		1
	6	VMP0040-001N	SPEAKER CODE		1
	7	TEP357469-02	STOPPER		1
	8	SBSF3020Z	SCREW		4

10 Exploded View of Mechanism Assembly

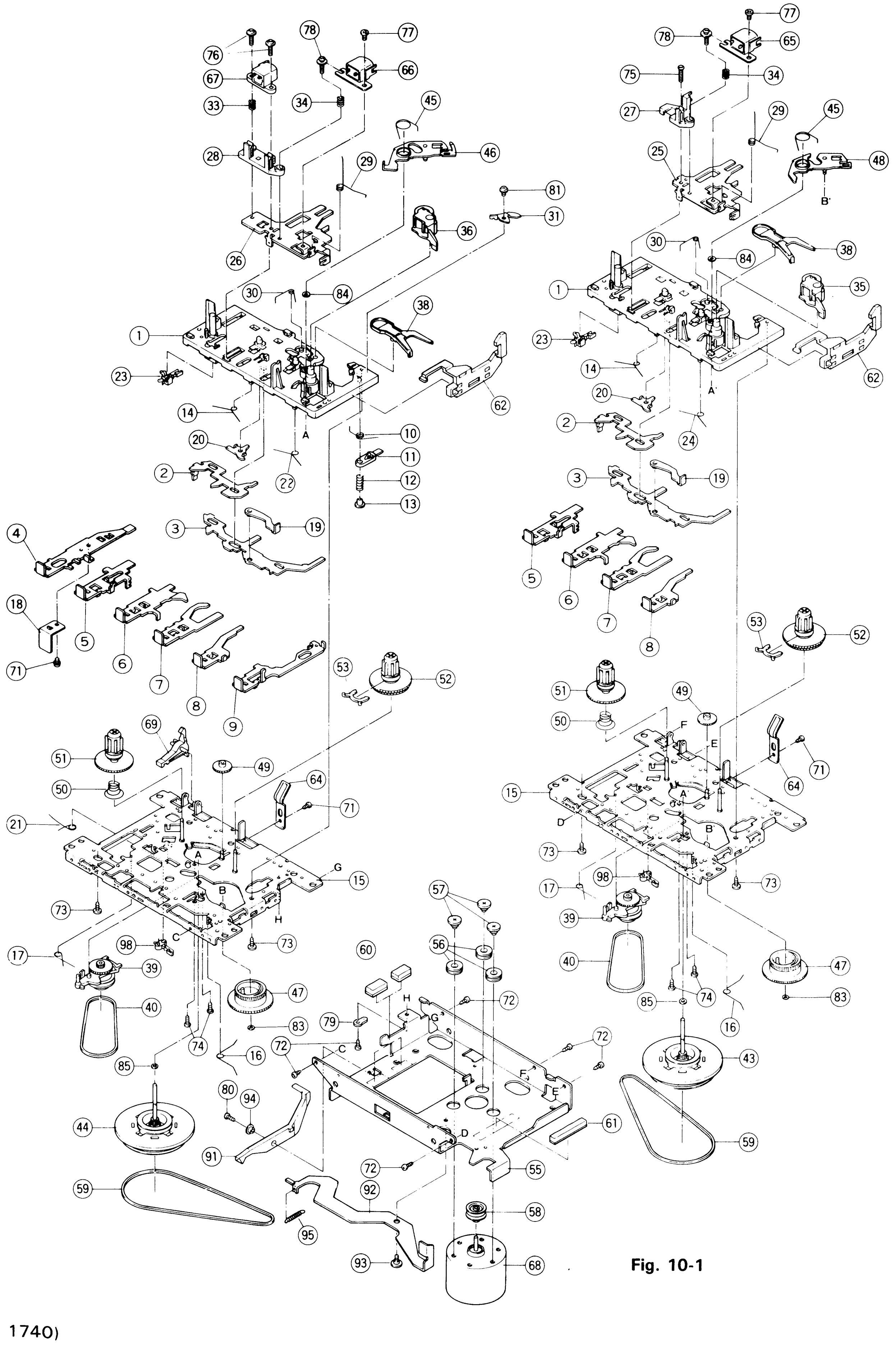
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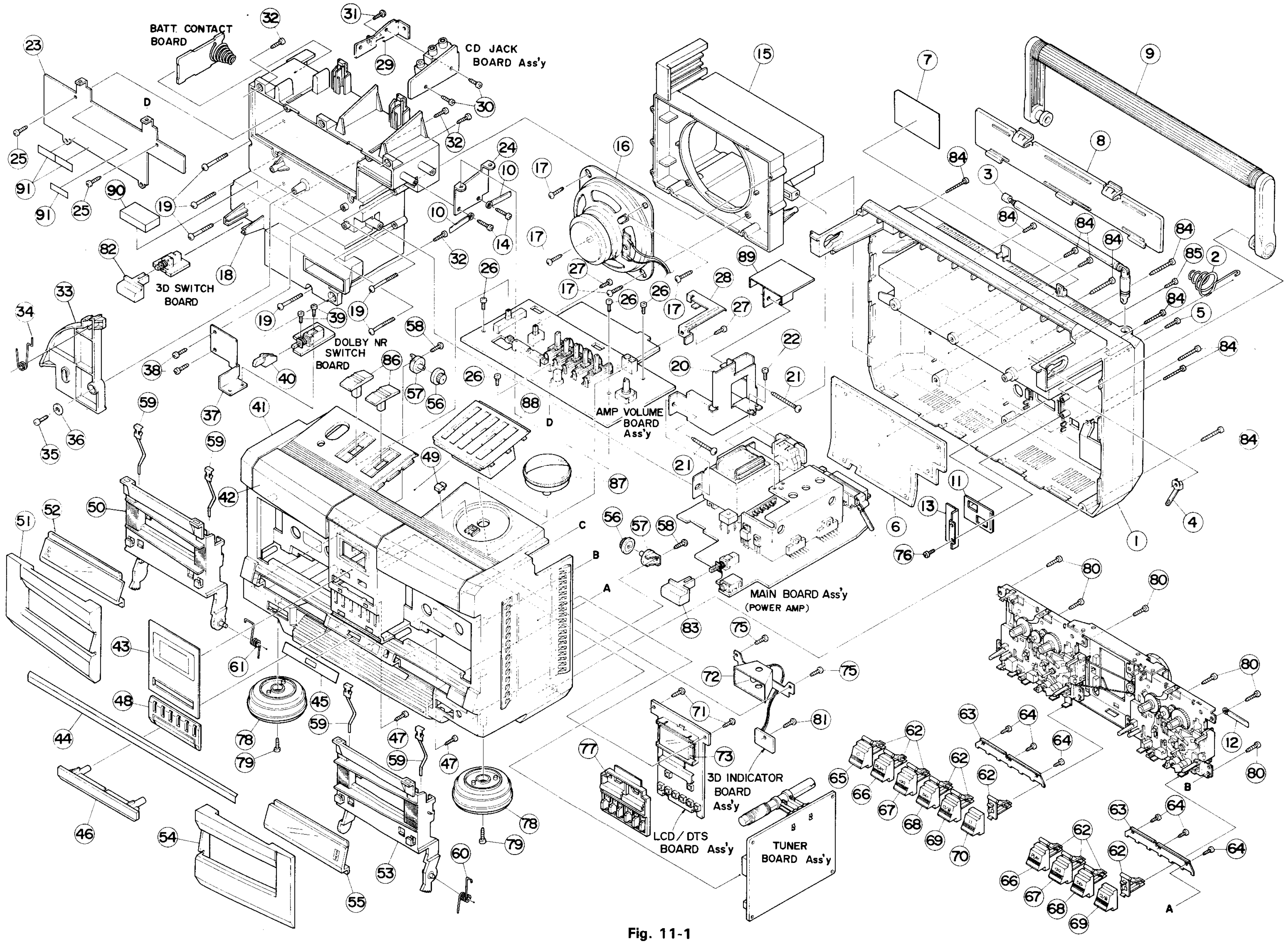
Fig. 10-1

Mechanism Component Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	192114301T	BASE ASS'Y		2
	2	19211409T	SWITCH PLATE		2
	3	19211408T	LOCK CAM		2
	4	19211422T	BUTTON LEVER		1
	5	19211423T	BUTTON LEVER		2
	6	19211424T	BUTTON LEVER		2
	7	19211425T	BUUTON LEVER		2
	8	19211426T	BUTTON LEVER		2
	9	19211427T	BUTTON LEVER		1
	10	19211413T	TORSION SPRING		1
	11	19211410T	PAUSE LEVER		1
	12	19211412T	PAUSE LEVER SP.		1
	13	19211411T	PAUSE STOPPER		1
	14	19211414T	TORSION SPRING		2
	15	192101501T	CHASSIS ASS'Y		2
	16	19211416T	TORSION SPRING		2
	17	19211417T	TORSION SPRING		2
	18	15100202T	REC SPRING		1
	19	182101159T	E.KICK LEVER		2
	20	19211420T	PR STOPPER		2
	21	19211421T	TORSION SPRING		1
	22	19211415T	TORSION SPRING		1
	23	640101149T	LEAF SWITCH		2
	24	19211433T	TORSION SPRING		1
	25	19210301T	HEAD PANEL		1
	26	19210302T	HEAD PANEL		1
	27	19210304T	HEAD BASE		1
	28	19210306T	HEAD BASE		1
	29	19210303T	PANEL P SPRING		2
	30	19211418T	TORSION SPRING		2
	31	19211434T	P ARM		1
	33	18210308T	SPRING		1
	34	18210307T	AZIMUTH SPRING		2
	35	192104301T	P.ROLLER ASS'Y		2
	38	19212604T	SENSING LEVER		2
	39	192107301T	RF CLUTCH ASS'Y		2
	40	19210703T	RF BELT		2
	43	192109304T	FLYWHEEL ASS'Y		1
	44	192109303T	FLYWHEEL ASS'Y		1
	45	19212605T	TORSION SPRING		2
	46	192126502T	GEAR PLATE ASY.		1
	47	19212602T	CAM GEAR		2
	48	192126501T	GEAR PLATE ASY.		1
	49	18211070T	F.F.GEAR		2
	50	18291010T	BACK TENS. SP.		2
	51	192105302T	SUPPLY REEL ASY		2
	52	192105301T	T-UP REEL ASS'Y		2
	53	19210506T	SENSER		2
	55	19211210T	MOTOR BRACKET		1
	56	18201306T	RUBBER CUSHION		3
	57	18211202T	COLLAR SCREW		3
	58	——	——		
	59	19210906T	MAIN BELT		2
	60	18201354T	MAT		2
	61	19211212T	MAT		1
	62	19211302T	EJ. SLIDE LEVER		2
	64	18291001T	PACK SPRING		2
	65	VGH0421-020	R / P HEAD		1
	66	62020166T	R/P HEAD		1
	67	62021213T	E HEAD		1
	58,68	192112312ZT	MOTOR ASSY		1
	69	18211069T	REC.SAF.LEVER		1
	71	91790000T	TAPPING SCREW		1
		91790000T	TAPPING SCREW		1
		91790000T	TAPPING SCREW		1
	72	91800000T	SCREW		6
	73	96790000T	SCREW		2
		96790000T	SCREW		2
	74	99991809T	SPECIAL SCREW		2
		99991809T	SPECIAL SCREW		2
	75	90040000T	SCREW		1
	76	92230000T	CAP SCREW		2
	77	91150000T	SCREW		1
		91150000T	SCREW		1
	78	99220000T	SCREW		1
		99220000T	SCREW		1
	79	94800000T	LUG		1
	80	91820000T	SCREW		1
	81	99992015T	SPECIAL SCREW		1
	83	94220000T	POLY.CUT WASHER		1
		94220000T	POLY.CUT WASHER		1
	84	99990313T	POLY.CUT WASHER		1
		99990313T	POLY.CUT WASHER		1
	85	97860000T	P.WASHER		1
		97860000T	P.WASHER		1
	91	19211209T	P KICK LEVER B		1
	92	182112154T	P KICK LEVER A		1
	93	18211223T	COLLAR SCREW		1
	94	18211265T	COLLAR		1
	95	18211225T	SPRING		1
	98	640101161T	LEAF SWITCH		2

11 Exploded View of Enclosure Assembly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BATT. CONTACT BOARD
CD JACK BOARD Ass'y
3D SWITCH BOARD
DOLBY NR SWITCH BOARD
AMP VOLUME BOARD Ass'y
MAIN BOARD Ass'y (POWER AMP)
3D INDICATOR BOARD Ass'y
LCD / DTS BOARD Ass'y
TUNER BOARD Ass'y
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Fig. 11-1

The Comparison Table of Enclosure Parts

Ref. No.	Parts Name	PC-V77 B	PC-V77 E	PC-V77 G	PC-V77 A	PC-V77 U
1	Rear Cabinet	VJC1624-004	VJC1624-002	VJC1624-005	VJC1624-002	VJC1624-002
7	Name Plate	VYN7038-003	VYN7038-002	VYN7038-007	VYN7038-006	VYN7038-004
11	AC Slider	VYH6552-001	VYH6552-001	VYH6552-001	VYH6552-001	VYH6552-002
41	Front Cabinet	VJC1628-002	VJC1628-002	VJC1628-003	VJC1628-002	VJC1628-002
43	LCD Lens	VJC3684-002	VJC3684-002	VJC3684-002	VJC3684-003	VJC3684-003

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Enclosure Assembly Parts List

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VJC1624-004	REAR CABINET		1
	2	VYH5657-001	BATTERY SPRING		1
	3	VJA3006-00E	T.ANTENNA ASS'Y		1
	4	VYH5012-002	LUG TERMINAL		1
	5	SDSP3010N	SCREW	FOR ANTENNA	1
	6	VYH6551-001	SHEET		1
	7	VYN7038-003	NAME PLATE		1
	8	VJC2016-008	BATTERY COVER		1
	9	VJH4092-00B	HANDLE ASS'Y		1
	10	VKZ4001-011	WIRE HOLDER		2
	11	VYH6552-001	AC SLIDER		1
	12	VKZ4001-007	WIRE CLAMP		1
	13	VYH6553-001	AC BRACKET		1
	14	SDSF3010Z	SCREW		2
	15	VYH1165-001	3D BASE		1
	16	EAS10PL429B	SPEAKER		1
	17	SDSF3010Z	SCREW	FOR SPEAKER	4
	18	VYH1169-001	3D COVER		1
	19	SBSF3025Z	SCREW	COVER - BASE	6
	20	VYH3442-002	TRANS.BRACKET		1
	21	SBSF4020Z	SCREW	TRANS.- 3D UNIT	2
	22	SBSB3010Z	SCREW	FOR RADIATION	1
	23	VYH3444-002	3D PLATE		1
	24	VYH6629-001	BRACKET	FOR BOARD	1
	25	SDSF3010Z	SCREW	3D CASE - BRACKET	2
	26	SDST3006Z	SCREW	BOARD - 3D UNIT	4
	27	SDSF3010Z	SCREW	BOARD - 3D UNIT	2
	28	VYH6664-001	BRACKET		1
	29	VYH6555-001	JACK BRACKET		1
	30	SDST3006Z	SCREW	FOR JACK BRACKET	2
	31	SDSF3010Z	SCREW	JACK - 3D UNIT	1
	32	SBSF3030Z	SCREW	F.CABINET - 3D UNIT	4
	33	VYH3445-001	REC ARM		1
	34	VYH6558-001	REC SPRING		1
	35	SDSF3010Z	SCREW	FOR REC ARM	1
	36	Q03091-109	WASHER	FOR REC ARM	1
	37	VYH6630-001	BRACKET		1
	38	SDSF3008Z	SCREW		2
	39	SDST3006Z	SCREW		2
	40	VXP4649-001	PUSH BUTTON		1
	41	VJC1628-002	FRONT CABINET		1
	42	VJD3685-001	FRONT COVER		1
	43	VJD3684-002	LCD LENS		1
	44	VJD3683-001	PLATE		1
	45	VJD5078-002	3D LENS		1
	46	VJD5066-002	ESCUTCHEON		1
	47	SSSF3010Z	SCREW	FOR ESCUTCHEON	2
	48	VJD5079-001	F.ESCUTCHEON		1
	49	VYH6665-001	STOPPER		1
	50	VJT2159-001	CASSE HOLDER	FOR LEFT	1
	51	VJT2160-001	CASSE COVER	FOR LEFT	1
	52	VJT3228-003	CASSETTE LENS	FOR LEFT	1
	53	VJT2159-002	CASSETTE HOLDER	FOR RIGHT	1
	54	VJT2160-002	CASSETTE COVER	FOR RIGHT	1
	55	VJT3228-004	CASSETTE LENS	FOR RIGHT	1

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	56	VYH5601-001	GEAR		2
	57	VYH5602-001	DAMPER HOLDER		2
	58	SDSF3012Z	SCREW	FOR DAMPER	2
	59	VKY4180-001	CASSETTE SPRING		4
	60	VYH6557-001	DOOR SPRING		1
	61	VYH6644-001	DOOR SPRING		1
	62	VKS4843-001	BUTTON LEVER		10
	63	VKL5960-001	BUTTON BRACKET		2
	64	SSSF2608Z	SCREW		6
	65	VXP3201-001	BUTTON(REC)		1
	66	VXP3201-002	BUTTON(PLAY)		2
	67	VXP3201-003	BUTTON(REW)		2
	68	VXP3201-004	BUTTON(FF)		2
	69	VXP3201-005	BUT(STOP/EJECT)		2
	70	VXP3201-006	BUTTON(PAUSE)		1
	71	SDSF3012Z	SCREW	FOR BOARD	2
	72	VYH6559-001	LCD CASE		1
	73	VYH6560-002	SHEET		1
	75	SDSF3012Z	SCREW	CABINET - CASE	2
	76	SDSF3010Z	SCREW	FOR AC BRACKET	1
	77	VXP3223-001	PUSH KNOB ASS'Y		1
	78	VJF4015-002	FOOT		2
	79	GBSF3010Z	SCREW	FOR FOOT	2
	80	SDSF3012Z	SCREW	FOR MECHANISM	6
	81	SDSF3008Z	SCREW	FOR 3D LED	1
	82	VXP4647-003	PUSH BUTTON	FOR 3D	1
	83	VXP4647-004	PUSH BUTTON	FOR POWER	1
	84	SDSF3016N	SCREW	FRONT - REAR	10
	85	SDSP4016N	SCREW	FRONT - REAR	1
	86	VXS4257-001	SLIDE KNOB		2
	87	VXL4299-001	VOLUME KNOB		1
	88	VJD5080-001	SEA COVER		1
	89	VYH6700-001	SHIELD		1
	90	VYSH107-010	SPACER		1
	91	VYSA1R4-066	SPACER		3
	41 ~ 45,48,49	ZCPRV77K-FBK	FRONT CABINET ASS'Y		1
	50,59	ZCPRV77K-CH-A	CASSETTE HOLDER ASS'Y	DECK A	1
	53,59	ZCPRV77K-CH-B	CASSETTE HOLDER ASS'Y	DECK B	1

12 Packing and Packing Parts List

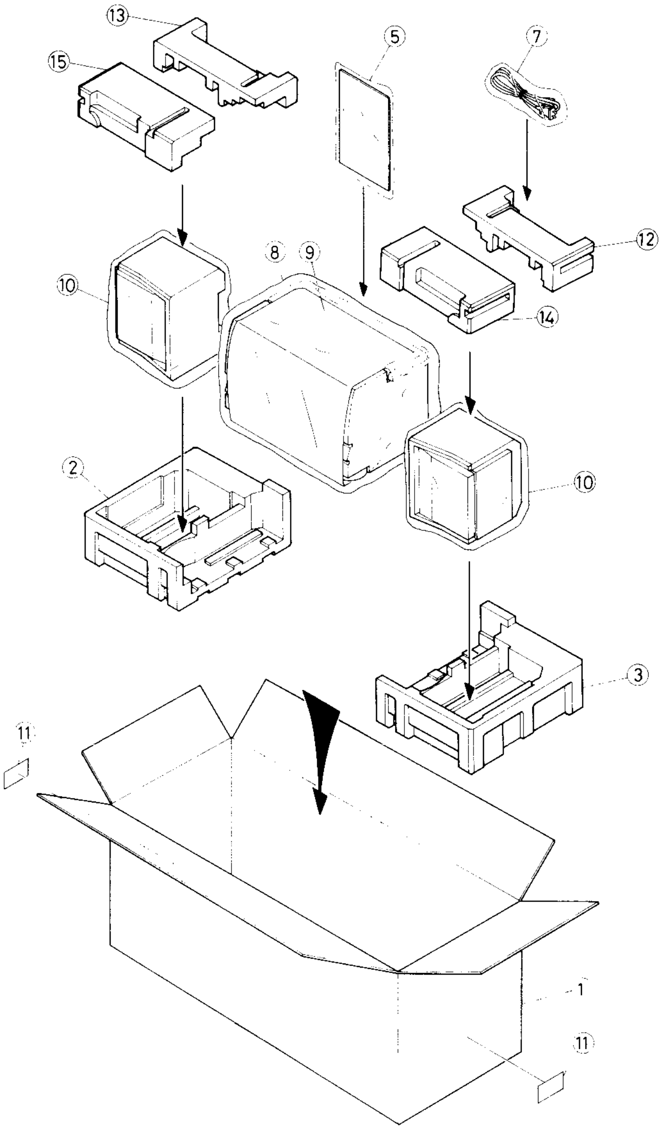

Fig. 12-1

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Packing Parts List

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VPC7038-001	Carton		1
	2	VPH1410-001	Cushion	Left Side (bottom)	1
	3	VPH1410-002	Cushion	Right Side (bottom)	1
	5	VPE3005-004	Poly Bag	for Instruction	1
	7	QPGA012-02505	Poly Bag	for Power Cord	1
	8	VPE3005-026	Poly Bag	for Receiver	1
	9	VPK4002-016	Sheet		1
	10	VPE3005-016	Poly Bag	for Speaker	2
	11	VPZ4001-001	Serial Ticket		2
	12	VPH1411-002	Cushion	Left Side	1
	13	VPH1411-001	Cushion	Right Side	1
	14	VPH1412-002	Cushion	Left Side	1
	15	VPH1412-001	Cushion	Right Side	1

13 Accessories

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	VNN7038-211	Instruction Book	B/G Version	1
	VNN7038-441	″	E Version	1
	VNN7038-101	″	A Version	1
	VNN7038-801	″	U Version	1
	BT20060	Warranty Card	B Version	1
	BT20066	″	B/G Version	1
	BT20027D	″	A Version	1
	BT20065	″	G Version	1
	PU36158	FTZ Information Sheet	G Version	1
	QZL1002-003	Warning Label	B Version	1
	QMP9017-009BS	Power Cord	B Version	1
	QMP2540-200	″	A Version	1
	QMP3950-183	″	E/G Version	1
	QMP7350-150	″	U Version	1

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